

Exhibit 7



McDonald Hopkins LLC
600 Superior Avenue, East
Suite 2100
Cleveland, OH 44114

P 1.216.348.5400
F 1.216.348.5474

Direct Dial: 216.348.5730
E-mail: mcavanagh@mcdonaldhopkins.com

***** CONFIDENTIAL AND SUBJECT TO FRE 408 *****

October 11, 2021

Via Email (rg@gilelawgroup.com)

Ryan Gile, Esq.
GILE LAW GROUP
The Canyons at Summerlin
1180 No. Town Center Dr., Ste. 100
Las Vegas, NV 89144

Re: Spectrum's Synthetic Urine Patents

Dear Mr. Gile:

We previously exchanged correspondence regarding Spectrum Laboratories, LLC's patent infringement concerns relating to your client Aim High Investment Group, LLC based on its manufacture and sale of *XStream* synthetic urine. Since then, Spectrum had the *XStream* product that tested positive for the isothiazoline biocide sent to a second lab, Element Labs, for confirmatory testing.

Element's testing has confirmed that *XStream*: (a) contains methylisothiazolinone, which is the same claimed biocide detected in the product by the original lab, (b) has a dissociated ionic compound, namely chloride, (c) contains water, (d) has pH between 3 and 10, namely 9.09, and (e) has specific gravity between 1.005 g/cm³ and 1.025 g/cm³, namely 1.010 g/cm³. The full reports by Element Labs are enclosed, and they include photos of the *XStream* product, which proves it is authentic. Furthermore, marketing materials for *XStream* admit that it contains creatinine and urea, *see* xstreamurine.com and xurine.com, and we are confident that whatever formula information Aim High has in its possession shows that creatinine and urea are ingredients. This testing, therefore, proves that *XStream* has all of the limitations of one or more claims of Spectrum's '776 and '105 patents.

If Aim High desires to resolve this dispute amicably and without a lawsuit, then it must provide the following to me in writing by no later than October 25, 2021:

- (1) Confirmation that Aim High has ceased and will forever desist from making, using, importing, offering to sell, and selling any synthetic urine containing

Ryan Gile, Esq.
October 11, 2021
Page 2

- isothiazoline or any other biocide covered by any of the claims of the '776 or '105 patents.
- (2) Confirmation that Aim High has advised in writing all third-parties associated with Aim High to immediately cease and desist from making, using, importing, offering to sell, and selling any synthetic urine containing isothiazoline or any other biocide covered by any of the claims of the '776 or '105 patents.
 - (3) A report detailing Aim High's remaining inventory of synthetic urine containing isothiazoline or any other biocide covered by any of the claims of the '776 or '105 patents, and Aim High's written agreement to destroy that inventory.
 - (4) A full written accounting of all Aim High's sales of synthetic urine containing isothiazoline or any other biocide covered by any of the claims of the '776 or '105 patents., including (without limitation) the annual units sold and annual revenue for each product.
 - (5) Name and contact information for each customer, distributor, retailer, or other business or individual to whom Aim High has sold or otherwise provided synthetic urine containing isothiazoline or any other biocide covered by any of the claims of the '776 or '105 patents.
 - (6) Name and contact information for each manufacturer, supplier, distributor, or other business from whom Aim High has obtained any synthetic urine (regardless of whether they disclaim having a biocide), including any business that has made or privately-labeled synthetic urine for Aim High.
 - (7) A sworn affidavit by an appropriate and knowledgeable representative of Aim High certifying that the information and representations that Aim High provides in response to this letter are true, accurate, and complete.

Please feel free to call or write if you have questions, concerns, or would like to discuss further. Spectrum has instructed me to file a patent infringement lawsuit if Aim High does not respond in a satisfactory manner, and we have lined up local counsel. We still hope that litigation can be avoided, but are prepared to go that route to protect Spectrum's legal and business interests.

Sincerely,

Matthew J. Cavanagh

Enclosures: Element Laboratory Report (8/16/2021)
Element Laboratory Report (9/7/2021)



9240 Santa Fe Springs Road
Santa Fe Springs, CA
90670 USA

P: 1 562 948 2225
F: 1 562 948 5850
info.santafesprings@element.com
element.com

Laboratory Report

August 16, 2021

Spectrum Laboratories LLC
400 S 4th St Ste 500
Las Vegas, NV 89101-6207

Attn: Jeffrey "Jeff" Hale

Element Job No: 249067
Purchase Order: COD - CC
Project Name: X-Stream Synthetic Urine
Samples Received: 1
Date Received: 07-27-2021

Analysis	Page
Methylisothiazolinone and Chloromethylisothiazolinone by LC-MS/MS	2
Photography	Enclosed
QA Data Package	Enclosed

Copy of Report Sent to;
McDonald Hopkins LLC
600 Superior Ave E Ste 2100
Cleveland OH 44114-2690
Attn: Matthew J Cavanagh


Michael Shelton
Technical Director


Robert Stead
Senior Chemist



Spectrum Laboratories LLC
Job No: 249067

Methylisothiazolinone and Chloromethylisothiazolinone by LC-MS/MS
Liquid Chromatography-Tandem Mass Spectrometry

Sample preparation: The sample was analyzed both undiluted and as a 1:10 dilution in water, using the instrument conditions described below. Based on acceptable spike recoveries in the undiluted sample, only those results are reported.

Instrument Conditions

HPLC

Column: 50 x 2.1 mm Acquity BEH C18, 1.7µm
Eluent A: 0.1% formic acid in water
Eluent B: 0.1% formic acid in 95/5 ACN/water
Gradient: 98:2 A:B (2 min hold), linear gradient to 80:20 at 6 min; hold 2 min
Flow: 0.3 mL/min
Column Temp: 40 °C
Injection: 10 µL

Electrospray MS/MS

Drying Gas: N₂, 300°C, 13 L/min
Nebulizer: N₂, 60 psi
Capillary: 4000 V
MS/MS
MIT: m/z 116→71 (quant), m/z 116→101
CMIT: m/z 150→135 (quant), m/z 150→115

Parts Per Billion (µg/L)

Sample ID	MIT	CMIT
000279833OPP	0.7	ND
Method Blank	ND	ND
Detection Limit	0.4	1

Date Analyzed: 08-10-2021

Quality Control Summary

Sample ID: 000279833OPP

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Duplicate	Duplicate % Rec	RPD
MIT	0.67	7.40	6.37	77	6.46	78	1
CMIT	ND	22.6	15.0	66	14.7	65	2

QC Guidelines 50-150 50-150 NMT 25

23977-3

000279833OPP

STREAM®

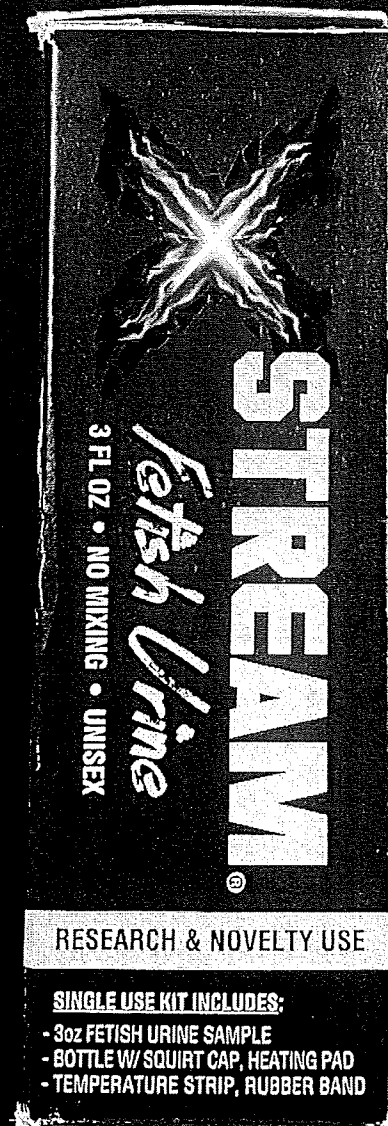
Adult Novelty
Fetish Urine

Version X.11.0

TOXIN FREE • EASY-TO-USE • NO MIXING • UNISEX

3 FLUID OZ.

249067



249067

DIRECTIONS:

(SINGLE USE ONLY, once opened and heated must discard after SINGLE use)

1. Shake well, unscrew cap and remove foil seal (discard seal). Place bottle in the middle of your microwave for 10-15 seconds to ensure temperature strip reads between 94-100 degrees F. If temperature strip doesn't read right away don't be alarmed, the sample is either too cold or hot, give it a few seconds. If temperature is not met reheat for 5-10 seconds to get temperature to 94-100 degrees. You can re-heat bottle as many times that day only to meet your needs, product is only good for 24 to 48 hours once opened.

2. After heating, screw on flip cap provided and shake bottle to eliminate any sediment on the bottom of the bottle.

3. Remove the enclosed heat pad from the plastic pouch and shake well to activate heat. Next attach heat pad with the enclosed rubber band on the side of the bottle on the opposite side of temperature strip (this will ensure proper temperature reading). Leave heating pad on the bottle since it will last up to 8 hours.

NO MICROWAVE? NO PROBLEM. To heat this product, simply attach the supplied heat pad directly to the bottle, on the opposite side of the temperature strip and store bottle close to your body. Depending on ambient temperature product could take up to 1 hour to reach optimal range of 94-100 degrees.

WARNING: This product is not intended for unlawful use and is not intended for human consumption. Keep product away from children, kit contains small plastic parts, harmful if swallowed. Consumer agrees to all applicable Federal, State and Local Laws concerning the legal use of this product.

XSTREAM FETISH URINE USES:

- ADULT FETISH • SILLY PRANKS • SCIENTIFIC USES • URINE THERAPY
- DEER OR ANIMAL ATTRACTANT/REPELLENT (requires additives not included)

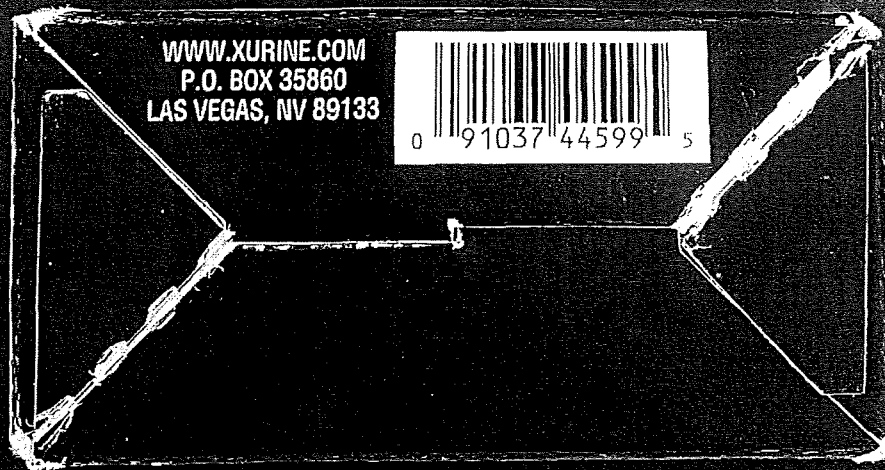
TOXIN FREE • EASY-TO-USE • NO MIXING • UNISEX

FEB 20 2020 12 1735

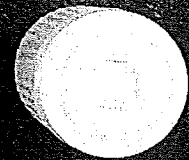
249067



249067



249067



249067

QA DATA PACKAGE

Job Number: 249067

Table of Contents

	<u>Page</u>
I. Liquid Chromatography–Mass Spectrometry Methylisothiazolinone and Chloromethylisothiazolinone by LC-MS/MS	2 – 54



element

SOP 2160

QA DATA AUDIT FORM

Job Number(s): 249067
 Product: X-stream Synthetic Urine
 Analysis: MIT / CMIT Method: LC-MS/MS Instrument: LCMS3
 Date Prepared: 10 Aug 21 Date Analyzed: 10 Aug 21

The analytical records package has been reviewed and the following parameters have been verified:

~~Yes~~ N/A

- ☒ The technical review has been completed and is evidenced in the completion of the technical review form and signature of the analyst and the reviewer
- ☐ ☒ NCRs or deviations raised and relating to this analysis have been satisfactorily closed
- ☐ ☒ OOT or OOS investigation in progress
- ☐ ☒ OOT or OOS investigations relating to this analysis have been satisfactorily closed
- ☒ ☐ The final analytical results and conclusions are reported accurately and in line with the customer's or product specification
- ☐ ☒ The OOT or OOS investigation report number is included in the final analytical report
- ☒ ☐ Other comments relating to the sample(s) or the analyses (as applicable) are included in the final analytical report
- ☒ ☐ Electronic data / audit trails reviewed acceptable

☒ N/A Deviation(s) from SOP or Method, OOT or OOS (please attached):
☐ NCR N ☐ OOS ☐ OOT

I certify that the data contained in this package has been reported in line with the product specification. This data has been acquired under Element Standard Operating Procedures and in compliance with cGMP/cGLP. Any deviations, OOT, OOS or NCRs have been investigated, documented and either corrected or justified and have been satisfactorily closed.

QA Signature: Date: 13 Aug 21



SOP 2160

Job Number(s): 249067 Product: Synthetic Urine
 Date Analyzed: 08-10-2021 Analysis: MIT/CALIT
 Analyst: [Signature] Instrument: LCMS-3

COMMON ABBREVIATIONS:

NR NOT REPORTED
 WRT WRONG RETENTION TIME

<DL LESS THAN DETECTION LIMIT
 QR QUANTITATION REPORT

This LCMS data package contains the following (note any omissions or problems):

1. List of samples analyzed: ☒ Attached Instrument Logbook No. 2366 Page 27
 Prep Logbook No. 2358 Page 41
2. Reagents within expiry: ☒ Satisfactory ☐ See NCR
3. IS recoveries: ☒ N/A ☐ Satisfactory ☐ See QC Action Form
4. Calibration: ☐ N/A ☒ Satisfactory ☐ Prev. cal. date _____
5. Continuing Calibration: ☐ N/A ☒ Satisfactory ☐ See QC Action Form
6. ICV results: ☒ N/A ☐ Satisfactory ☐ See QC Action Form
7. LFB results: ☒ N/A ☐ Satisfactory ☐ See QC Action Form
8. MS/MSD recoveries: ☐ N/A ☒ Satisfactory ☐ See QC Action Form
9. Duplicate/MSD RPD: ☐ N/A ☒ Satisfactory ☐ See QC Action Form
10. Method Blanks: ☐ N/A ☒ Satisfactory ☐ See QC Action Form
11. System Suitability: 08-11-2021 Mass Accuracy ☒ N/A ☒ Satisfactory RSD ☒ N/A (NMT _____)
 Tailing ☒ N/A (NMT _____) S/N ☒ N/A (NLT _____) Linearity ☐ N/A (NLT 0.995) ≥ 0.995

Deviation(s) from SOP or Method, OOT or OOS: ☒ None ☐ NCR N _____ ☐ OOS/OOT _____

I certify that this data has been acquired under Element Standard Operating Procedures and that any non-conformances have been properly documented and justified.

Analyst Signature: [Signature] Date: 08-11-2021

I certify that this data has been reviewed, calculations verified, and non-conformances satisfactorily handled.

Electronic data / audit trails reviewed ☒ Yes ☐ No

Logbook entry, printed worklist, and enclosed data reconciled ☒ Yes ☐ No

Reviewer Signature: [Signature] Date: 08-12-2021

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	1:10 Dilutions												
2													
3			Detection Limit										
4	000279833OPP	MIT 0.37	CMIT 1.13	MIT 0.1619	CMIT 0.2392	MIT ND	CMIT ND	MIT NA	CMIT NA	MIT NA	CMIT NA	MIT NA	CMIT NA
5	000279833OPP MS	0.37	1.13	3.829	11.3657	38.3	113.7	37	113	103	101	0.4	2.8
6	000279833OPP MSD	0.37	1.13	3.8438	11.6859	38.4	116.9	37	113	104	103		
7													
8													
9													
10	Undiluted												
11			Detection Limit										
12		MIT 0.37	CMIT 1.13	MIT 0.6705	CMIT 0.2713	MIT 0.67	CMIT ND	MIT NA	CMIT NA	MIT NA	CMIT NA	MIT NA	CMIT NA
13	000279833OPP	0.37	1.13	6.3734	14.9668	6.37	15.0	7.4	22.60	77.1	66.2	1.3	1.8
14	000279833OPP MS	0.37	1.13	6.4582	14.7007	6.46	14.7	7.4	22.60	78.2	65.0		
15	000279833OPP MSD	0.37	1.13										

[illegible]

LCMS-3 Instrument Logbook

Logbook # 2366

Date: 08-10-2021 Analyst: my Analysis: MIT/CMITColumn: SB-2-1 mm Acquity C18 BEH, 1.7 μ m LC115-121Eluent A: 0.1% Formic Acid/H₂O 2357-0810-069-1 exp 02-10-22B: 0.1% Formic Acid (95% AcN) 2357-0727-060-1 exp 01-27-22Gradient: 95/2 (2 min) \rightarrow 80/20 @ 6 min hold 2 minFlow: 0.3 mL/min Cell Temp: 40°C Inlet BPA 3550 psi Temp: Amb 10 μ L inj300C 08-08-10-2021 5GOS: 350 15 μ minCap: 4000VNeb: 60 psi

08/10/2021

	MS/MS	Dwell	Frq	CE	CN	
0-3 min	116-101	100	125	24	2	Pos Ion DEMU=200
	116-71	100	125	24	2	207.0 ms/cycle 4.83 Hz
3-8 min	150-135	100	125	24	2	for both segments
	150-115	100	125	24	2	

Method: Biocides.mData Path: D:\MassHunter\data\0821\08106biocides08-08-10-2021

Worklist Report

Worklist Table

	Sample Name	Sample Position	Method	Data File	Sample Type	Level Name	Comment
1	Water	Vial 1	Biocides.m	0810001.d	Sample		
2	Water	Vial 1	Biocides.m	0810002.d	Sample		
3	1.5 ppb MIT/CMIT	Vial 2	Biocides.m	0810003.d	Calibration	L1	2357-0810-070-2 exp 08-17-2021
4	6 ppb MIT/CMIT	Vial 3	Biocides.m	0810004.d	Calibration	L2	2357-0810-070-3 exp 08-17-2021
5	15 ppb MIT/CMIT	Vial 4	Biocides.m	0810005.d	Calibration	L3	2357-0810-071-3 exp 08-17-2021
6	30 ppb MIT/CMIT	Vial 5	Biocides.m	0810006.d	Calibration	L4	2357-0810-071-1 exp 08-17-2021
7	75 ppb MIT/CMIT	Vial 6	Biocides.m	0810007.d	Calibration	L5	2357-0810-070-1 exp 08-17-2021
8	150 ppb MIT/CMIT	Vial 7	Biocides.m	0810008.d	Calibration	L6	2357-0810-071-2 exp 08-17-2021
9	Water	Vial 1	Biocides.m	0810009.d	Sample		249067 Spectrum
10	000279833OPP	Vial 8	Biocides.m	0810010.d	Sample		249067 Spectrum 1:10
11	000279833OPP MS	Vial 9	Biocides.m	0810011.d	Sample		249067 Spectrum 1:10
12	000279833OPP MSD	Vial 10	Biocides.m	0810012.d	Sample		249067 Spectrum 1:10
13	30 ppb MIT/CMIT	Vial 5	Biocides.m	0810013.d	ConCal	L4	2357-0810-071-1 exp 08-17-2021
14	000279833OPP	Vial 11	Biocides.m	0810014.d	Sample		249067 Spectrum undiluted
15	000279833OPP MS	Vial 12	Biocides.m	0810015.d	Sample		249067 Spectrum undiluted
16	000279833OPP MSD	Vial 13	Biocides.m	0810016.d	Sample		249067 Spectrum undiluted
17	30 ppb MIT/CMIT	Vial 5	Biocides.m	0810017.d	ConCal	L4	2357-0810-071-1 exp 08-17-2021

08/11/2021

LCMS - Record of Sample Preparation

Logbook #2358

Date: 08-10-2021Analysis: MIT/CMITJob No: 249067Sample Matrix: X-Stream UrineClient: SpectrumPrepared By: W

Sample ID	Sample Amount	Comment
0002798330PP	500 μ L \rightarrow 5 μ L	Diluted in water Sample received with no foil seal.
0002798330PP MS	500 μ L \rightarrow 5 μ L	
0002798330PP MSD	500 μ L \rightarrow 5 μ L	
0002798330PP	5 μ L	N/A W 08/11/2021
0002798330PP MS	5 μ L	
0002798330PP MSD	5 μ L	
		N/A W 08/11/2021
		N/A W 08/11/2021
		N/A W 08/11/2021

Spikes

☐ N/A 1:10 Dilutions: MS/MSD: 50 μ L of 1.5 ppm MIT/CMIT 2357-0810-069-3 exp 08/17/2021
 Undiluted: MS/MSD: 100 μ L of 1.5 ppm MIT/CMIT 2357-0810-069-3 exp 08/17/2021
 N/A
 W 08/11/2021

Notes 1:10 Dilutions - 500 μ L sample pipetted into vial; MS/MSD spiked
Added 4500 μ L water.
Undiluted - 5000 μ L pipetted into vial, MS/MSD spiked.
 N/A
 exp 08/11/2021

Balance ID: NAPipette ID: PNMR-3.4 -6

- 08/11-2021 Ser A

LCMS - Standards
Logbook #2357

① DCB 07-26-2021

Standard: 10 ppm HBAH Prepared By: DCB Date: 07-26-2021ID #: 2357-0726-060-1 Exp: 08-02-2021 Reviewed By: cdm Date: 07-27-2021

Compound/Stock	ID # Lot #	Exp. Date	Conc.	Amount	Final Conc.	Ball/Pip. #
HBAH Stock	2357-0726-059-3	08-02-2021	1.035 mg/mL	97 µL	10.04 ppm	syr
DCB 07-26-2021						

Solvent: ☒ Methanol ☐ Water ☐ Acetonitrile ☐ IPA ☐ 5/95 0.1% Formic acid/Acetonitrile ☐ N/AOther: ☒ N/A Lot no.: ☐ N/A EA381 Exp: 11-20-2022 Final Volume/Wt.: ☐ N/A 10 mL [VF]Standard: Melamine Eluent A ① DCB 07-27-2021 (Melamine A)
0.1% Formic Acid in 95% ACN Prepared By: DCB Date: 07-27-2021ID #: 2357-0727-060-2 Exp: 01-27-2022 Reviewed By: cdm Date: 07-27-2021

Compound/Stock	ID # Lot #	Exp. Date	Conc.	Amount	Final Conc.	Ball/Pip. #
Formic Acid	BCCF4850	04-30-2026	97.9%	50 µL	0.1%	PNMR -3
Acetonitrile	EA672	01-08-2023	≥99.9%	950 mL	95%	grad cyl
Water	org-free	N/A	N/A	50 mL	5%	grad cyl
DCB 07-27-2021						

Solvent: ☐ Methanol ☐ Water ☐ Acetonitrile ☐ IPA ☐ 5/95 0.1% Formic acid/Acetonitrile ☒ N/AOther: ☒ N/A Lot no.: ☒ N/A Exp: Final Volume/Wt.: ☐ N/A 1000 mLStandard: 2.5% Formic Acid Prepared By: DCB Date: 07-27-2021ID #: 2357-0727-060-3 Exp: 07-27-2022 Reviewed By: cdm Date: 07-27-2021

Compound/Stock	ID # Lot #	Exp. Date	Conc.	Amount	Final Conc.	Ball/Pip. #
Formic Acid	BCCF4850	04-30-2026	97.9%	2.25 mL	2.5%	PNMR -6
DCB 07-27-2021						

Solvent: ☐ Methanol ☒ Water ☐ Acetonitrile ☐ IPA ☐ 5/95 0.1% Formic acid/Acetonitrile ☐ N/AOther: ☒ N/A Lot no.: ☒ N/A Exp: Final Volume/Wt.: ☐ N/A 90 mL

LCMS - Standards
Logbook #2357Standard: 0.1% Formic Acid / H₂O Prepared By: SW Date: 08-10-2021ID #: 2357-0810-069-1 Exp: 07-10-2022 Reviewed By: cdm Date: 08-10-2021

Compound/Stock	ID #/ Lot #	Exp. Date	Conc.	Amount	Final Conc.	Bal/ Pip. #
Formic Acid	Supelco BCCF4850	04-30-2026	98%	1 uL	0.1%	2002-4

Solvent: ☐ Methanol ☒ Water ☐ Acetonitrile ☐ IPA ☐ 5/95 0.1% Formic acid/Acetonitrile ☐ N/AOther: ☒ N/A Lot no.: ☒ N/A Exp: Final Volume/Wt.: ☐ N/A 1 LStandard: 15 ppm MIT/CMIT Prepared By: SW Date: 08-10-2021ID #: 2357-0810-069-2 Exp: 02-08-17-2021 Reviewed By: cdm Date: 08-10-2021

Compound/Stock	ID #/ Lot #	Exp. Date	Conc.	Amount	Final Conc.	Bal/ Pip. #
MIT/CMIT	Sigma L RAC6520	09-30-2024	1.5%	10 uL	15 ppm	Sgr

Solvent: ☐ Methanol ☒ Water ☐ Acetonitrile ☐ IPA ☐ 5/95 0.1% Formic acid/Acetonitrile ☐ N/AOther: ☒ N/A Lot no.: ☒ N/A Exp: Final Volume/Wt.: ☐ N/A 10 uLStandard: 1.5 ppm MIT/CMIT Prepared By: SW Date: 08-10-2021ID #: 2357-0810-069-3 Exp: 08-17-2021 Reviewed By: cdm Date: 08-10-2021

Compound/Stock	ID #/ Lot #	Exp. Date	Conc.	Amount	Final Conc.	Bal/ Pip. #
MIT/CMIT	2357-0810-069-2	08-17-2021	1.5 ppm	1 uL	1.5 ppm	2002-4

Solvent: ☐ Methanol ☒ Water ☐ Acetonitrile ☐ IPA ☐ 5/95 0.1% Formic acid/Acetonitrile ☐ N/AOther: ☒ N/A Lot no.: ☒ N/A Exp: Final Volume/Wt.: ☐ N/A 10 uL

LCMS - Standards
Logbook #2357Standard: 75 ppb MIT/CMIT Prepared By: [Signature] Date: 08-10-2021ID #: 2357-0810-070-1 Exp: 08-17-2021 Reviewed By: cdm Date: 08-10-2021

Compound/Stock	ID #/ Lot #	Exp. Date	Conc.	Amount	Final Conc.	Bal/ Pip. #
MIT/CMIT	2357-0810-069-3	08-17-2021	1.5 ppb	500 μ L	75 ppb	P/NR-4

Solvent: ☐ Methanol ☒ Water ☐ Acetonitrile ☐ IPA ☐ 5/95 0.1% Formic acid/Acetonitrile ☐ N/AOther: ☒ N/A Lot no.: ☒ N/A Exp: Final Volume/Wt.: ☐ N/A 10 mLStandard: 1.5 ppb MIT/CMIT Prepared By: [Signature] Date: 08-10-2021ID #: 2357-0810-070-2 Exp: 08-17-2021 Reviewed By: cdm Date: 08-10-2021

Compound/Stock	ID #/ Lot #	Exp. Date	Conc.	Amount	Final Conc.	Bal/ Pip. #
MIT/CMIT	2357-0810-070-1	08-17-2021	75 ppb	200 μ L	1.5 ppb	P/NR-7

Solvent: ☐ Methanol ☒ Water ☐ Acetonitrile ☐ IPA ☐ 5/95 0.1% Formic acid/Acetonitrile ☐ N/AOther: ☒ N/A Lot no.: ☒ N/A Exp: Final Volume/Wt.: ☐ N/A 10 mLStandard: 6 ppb MIT/CMIT Prepared By: [Signature] Date: 08-10-2021ID #: 2357-0810-070-3 Exp: 08-17-2021 Reviewed By: cdm Date: 08-10-2021

Compound/Stock	ID #/ Lot #	Exp. Date	Conc.	Amount	Final Conc.	Bal/ Pip. #
MIT/CMIT	2357-0810-069-5	08-17-2021	1.5 ppb	40 μ L	6 ppb	P/NR-5

Solvent: ☐ Methanol ☒ Water ☐ Acetonitrile ☐ IPA ☐ 5/95 0.1% Formic acid/Acetonitrile ☐ N/AOther: ☒ N/A Lot no.: ☒ N/A Exp: Final Volume/Wt.: ☐ N/A 10 mL

LCMS - Standards
Logbook #2357

Standard: 30ppb MIT/CMIT Prepared By: [Signature] Date: 08-10-2021
 ID #: 2357-0810-071-1 Exp: 08-17-2021 Reviewed By: cdm Date: 08-10-2021

Compound/Stock	ID #/ Lot #	Exp. Date	Conc.	Amount	Final Conc.	Bal/ Pip. #
MIT/CMIT	2357-0810-069-3	08-17-2021	1.5ppm	200 μ L	30ppb	PATR-7

Solvent: ☐ Methanol ☒ Water ☐ Acetonitrile ☐ IPA ☐ 5/95 0.1% Formic acid/Acetonitrile ☐ N/A

Other: ☒ N/A Lot no.: ☐ N/A Exp: Final Volume/Wt.: ☐ N/A 10mL

Standard: 150ppb MIT/CMIT Prepared By: [Signature] Date: 08-10-2021
 ID #: 2357-0810-071-2 Exp: 08-17-2021 Reviewed By: cdm Date: 08-10-2021

Compound/Stock	ID #/ Lot #	Exp. Date	Conc.	Amount	Final Conc.	Bal/ Pip. #
MIT/CMIT	2357-0810-069-3	08-17-2021	1.5ppm	1mL	150ppb	PATR-4

Solvent: ☐ Methanol ☒ Water ☐ Acetonitrile ☐ IPA ☐ 5/95 0.1% Formic acid/Acetonitrile ☐ N/A

Other: ☒ N/A Lot no.: ☒ N/A Exp: Final Volume/Wt.: ☐ N/A 10mL

Standard: 15ppb MIT/CMIT Prepared By: [Signature] Date: 08-10-2021
 ID #: 2357-0810-071-3 Exp: 08-17-2021 Reviewed By: cdm Date: 08-10-2021

Compound/Stock	ID #/ Lot #	Exp. Date	Conc.	Amount	Final Conc.	Bal/ Pip. #
MIT/CMIT	2357-0810-069-3	08-17-2021	1.5ppm	100 μ L	15ppb	PATR-3

Solvent: ☐ Methanol ☒ Water ☐ Acetonitrile ☐ IPA ☐ 5/95 0.1% Formic acid/Acetonitrile ☐ N/A

Other: ☒ N/A Lot no.: ☒ N/A Exp: Final Volume/Wt.: ☐ N/A 10mL

Worklist Report



Instrument Name: LCMS 3

Worklist Path: D:\MassHunter\Worklists\Biocides 210810.wkl

Operator Name: bcamericas\msheltonlab
 Run Type: Standard Start
 Part of Method to Run: Acquisition Only
 Execution of Acquisition-DA: Synchronous
 Acquisition Method Path: D:\MassHunter\methods
 DA Method Path: D:\MassHunter\methods
 Data File Path: D:\MassHunter\data\0821\0810biocides
 Pre-Worklist Script: ---
 Post-Worklist Script: ---
 Acquisition Clean Up Script: SCP_InstrumentStandby()\MH_Acq_Scripts.exe
 Overlapped Injection: Yes
 Clear Sample Selection After Run: Yes
 Wait Time for Ready(Min): 10
 Threshold Disk Value(GB): 10
 Comment: ---
 Plate Barcode: None

Worklist Table

	Sample Name	Sample Position	Method	Data File	Sample Type	Level Name	Comment
1	Water	Vial 1	Biocides.m	0810001.d	Sample		
2	Water	Vial 1	Biocides.m	0810002.d	Sample		
3	1.5 ppb MIT/CMIT	Vial 2	Biocides.m	0810003.d	Calibration	L1	2357-0810-070-2 exp 08-17-2021
4	6 ppb MIT/CMIT	Vial 3	Biocides.m	0810004.d	Calibration	L2	2357-0810-070-3 exp 08-17-2021
5	15 ppb MIT/CMIT	Vial 4	Biocides.m	0810005.d	Calibration	L3	2357-0810-071-3 exp 08-17-2021
6	30 ppb MIT/CMIT	Vial 5	Biocides.m	0810006.d	Calibration	L4	2357-0810-071-1 exp 08-17-2021
7	75 ppb MIT/CMIT	Vial 6	Biocides.m	0810007.d	Calibration	L5	2357-0810-070-1 exp 08-17-2021

D:\MassHunter\Worklists\Biocides 210810.wkl

Worklist Report



	Sample Name	Sample Position	Method	Data File	Sample Type	Level Name	Comment
8	150 ppb MIT/CMIT	Vial 7	Biocides.m	0810008.d	Calibration	L6	2357-0810-071-2 exp 08-17-2021
9	Water	Vial 1	Biocides.m	0810009.d	Sample		249067 Spectrum
10	000279833OPP	Vial 8	Biocides.m	0810010.d	Sample		249067 Spectrum 1:10
11	000279833OPP MS	Vial 9	Biocides.m	0810011.d	Sample		249067 Spectrum 1:10
12	000279833OPP MSD	Vial 10	Biocides.m	0810012.d	Sample		249067 Spectrum 1:10
13	30 ppb MIT/CMIT	Vial 5	Biocides.m	0810013.d	ConCal	L4	2357-0810-071-1 exp 08-17-2021
14	000279833OPP	Vial 11	Biocides.m	0810014.d	Sample		249067 Spectrum undiluted
15	000279833OPP MS	Vial 12	Biocides.m	0810015.d	Sample		249067 Spectrum undiluted
16	000279833OPP MSD	Vial 13	Biocides.m	0810016.d	Sample		249067 Spectrum undiluted
17	30 ppb MIT/CMIT	Vial 5	Biocides.m	0810017.d	ConCal	L4	2357-0810-071-1 exp 08-17-2021

Acquisition Method Report



Agilent Technologies

Acquisition Method Info

Method Name Biocides.m
 Method Path D:\MassHunter\methods\Biocides.m
 Method Description MIT/CMIT
 Device List
 Sampler
 Binary Pump
 Column Comp.
 QQQ

MS QQQ Mass Spectrometer

Ion Source ESI
 Stop Mode By StopTime
 Time Filter On
 Tune File atunes.TUNE.XML
 Stop Time (min) 8
 Time Filter Width (min) 0.07

Time Segments

Index	Start Time (min)	Scan Type	Ion Mode	Div Valve	Delta EMV	Store
1	0	MRM	ESI	To MS	200	Yes
2	3	MRM	ESI	To MS	200	Yes

Time Segment 1

Scan Segments

Cpd Name	ISTD?	Prec Ion	MS1 Res	Prod Ion	MS2 Res	Dwell	Frag (V)	CE (V)	Cell Acc (V)	Polarity
MIT	No	116	Unit/Enh (6490)	101	Unit/Enh (6490)	100	125	24	2	Positive
MIT	No	116	Unit/Enh (6490)	71	Unit/Enh (6490)	100	125	24	2	Positive

Scan Parameters

Data Stg
 Centroid
 Threshold
 0

Source Parameters

Parameter	Value (+)	Value (-)
Gas Temp (°C)	300	300
Gas Flow (l/min)	13	13
Nebulizer (psi)	60	60
Capillary (V)	4000	4000

Time Segment 2

Scan Segments

Cpd Name	ISTD?	Prec Ion	MS1 Res	Prod Ion	MS2 Res	Dwell	Frag (V)	CE (V)	Cell Acc (V)	Polarity
CMIT	No	150	Unit/Enh (6490)	135	Unit/Enh (6490)	100	125	24	2	Positive
CMIT	No	150	Unit/Enh (6490)	115	Unit/Enh (6490)	100	125	24	2	Positive

Scan Parameters

Data Stg
 Centroid
 Threshold
 0

Source Parameters

Parameter	Value (+)	Value (-)
Gas Temp (°C)	300	300
Gas Flow (l/min)	13	13
Nebulizer (psi)	60	60
Capillary (V)	4000	4000

Chromatograms

Chrom Type	Label	Offset	Y-Range
TIC	TIC	0	10000000

Instrument Curves

Actual

Acquisition Method Report



Agilent Technologies

Name: Sampler **Model:** G1329B

Auxiliary

Draw Speed 200 μ L/min
 Eject Speed 200 μ L/min
 Draw Position Offset 1.0 mm

Injection

Injection Mode Injection with needle wash
 Injection Volume 10.00 μ L
 Needle Wash
 Needle Wash Location Wash Vial
 Wash Location Vial 91

High throughput

Overlapped Injection
 Enable Overlapped Injection No

Stop Time

Stoptime Mode As pump/No limit

Post Time

Posttime Mode Off

Name: Binary Pump **Model:** G1312B

Flow 0.300 mL/min
 Use Solvent Types Yes
 Low Pressure Limit 0.00 psi
 High Pressure Limit 5801.51 psi
 Maximum Flow Gradient 100.000 mL/min²

Stroke A

Automatic Stroke Calculation A Yes

Stroke B

Automatic Stroke Calculation B Yes

Compress A

Compressibility Mode A Compressibility Value Set
 Compressibility A 50 10e-6/bar

Compress B

Compressibility Mode B Compressibility Value Set
 Compressibility B 115 10e-6/bar

Stop Time

Stoptime Mode Time set
 Stoptime 16.00 min

Post Time

Posttime Mode Off

Acquisition Method Report



Agilent Technologies

Timetable

Timetable

	Time	Function	Parameter
1	2.00 min	Change Flow	Flow: 0.3 mL/min
2	2.00 min	Change Max. Pressure Limit	Max. Pressure Limit: 5801.51 psi
3	2.00 min	Change Solvent Composition	Solvent composition A: 98.0 % B:2.0 %
4	6.00 min	Change Flow	Flow: 0.3 mL/min
5	6.00 min	Change Max. Pressure Limit	Max. Pressure Limit: 5801.51 psi
6	6.00 min	Change Solvent Composition	Solvent composition A: 80.0 % B:20.0 %
7	8.00 min	Change Flow	Flow: 0.3 mL/min
8	8.00 min	Change Solvent Composition	Solvent composition A: 80.0 % B:20.0 %
9	8.10 min	Change Flow	Flow: 0.3 mL/min
10	8.10 min	Change Max. Pressure Limit	Max. Pressure Limit: 5801.51 psi
11	8.10 min	Change Solvent Composition	Solvent composition A: 98.0 % B:2.0 %
12	16.00 min	Change Flow	Flow: 0.3 mL/min
13	16.00 min	Change Max. Pressure Limit	Max. Pressure Limit: 5801.51 psi
14	16.00 min	Change Solvent Composition	Solvent composition A: 98.0 % B:2.0 %

Solvent Composition

	Channel	Solvent 1	Name 1	Solvent 2	Name 2	Selected	Used	Percent
1	A	H2O	0.1% FA	MeOH	10% H2O 1mM AF	Ch. 1	Yes	98.0 %
2	B	ACN	0.1% FA/95% ACN	H2O		Ch. 1	Yes	2.0 %

Name: Column Comp.

Model: G1316A

Left Temperature Control

Temperature Control Mode

Temperature Set

Temperature

40.00 °C

Enable Analysis Left Temperature

Enable Analysis Left Temperature On

Yes

Enable Analysis Left Temperature Value

2.00 °C

Right Temperature Control

Right temperature Control Mode

Combined

Enable Analysis Right Temperature

Enable Analysis Right Temperature On

Yes

Enable Analysis Right Temperature Value

2.00 °C

Stop Time

Stoptime Mode

As pump/injector

Post Time

Posttime Mode

Off

Quantitative Analysis Summary Report

Batch Data Path D:\MassHunter\Data\0821\0810biocides\QuantResults\0810biocides.batch.bin
Analysis Time 8/11/2021 9:50 AM **Analyst Name** BCAMERICAS\msheltonlab
Report Time 8/11/2021 9:52 AM **Reporter Name** BCAMERICAS\msheltonlab
Last Calib Update 8/11/2021 9:50 AM **Batch State** Processed
Quant Batch Version B.05.02 **Quant Report Version** B.05.02

Sequence Table

Data File	Sample Name	Sample Type	Position	Volume	Level	Acq Method File
0810001.d	Water	Sample	Vial 1	-1		Biocides.m
0810002.d	Water	Sample	Vial 1	-1		Biocides.m
0810003.d	1.5 ppb MIT/CMIT	Calibration	Vial 2	-1	L1	Biocides.m
0810004.d	6 ppb MIT/CMIT	Calibration	Vial 3	-1	L2	Biocides.m
0810005.d	15 ppb MIT/CMIT	Calibration	Vial 4	-1	L3	Biocides.m
0810006.d	30 ppb MIT/CMIT	Calibration	Vial 5	-1	L4	Biocides.m
0810007.d	75 ppb MIT/CMIT	Calibration	Vial 6	-1	L5	Biocides.m
0810008.d	150 ppb MIT/CMIT	Calibration	Vial 7	-1	L6	Biocides.m
0810009.d	Water	Sample	Vial 1	-1		Biocides.m
0810010.d	000279833OPP	Sample	Vial 8	-1		Biocides.m
0810011.d	000279833OPP MS	Sample	Vial 9	-1		Biocides.m
0810012.d	000279833OPP MSD	Sample	Vial 10	-1		Biocides.m
0810013.d	30 ppb MIT/CMIT	CC	Vial 5	-1	L4	Biocides.m
0810014.d	000279833OPP	Sample	Vial 11	-1		Biocides.m
0810015.d	000279833OPP MS	Sample	Vial 12	-1		Biocides.m
0810016.d	000279833OPP MSD	Sample	Vial 13	-1		Biocides.m
0810017.d	30 ppb MIT/CMIT	CC	Vial 5	-1	L4	Biocides.m

Quantitation Results

Target Compound	Compound	ISTD	Sample Type	Response	ISTD Resp	Resp Ratio	Final Conc	Exp Conc	Accuracy
MIT	MIT		Sample	44			0.0651		
MIT	MIT		Sample	32			0.0597		
MIT	MIT		Calibration	826			0.4044	0.3700	109.30
MIT	MIT		Calibration	3118			1.3993	1.4800	94.55
MIT	MIT		Calibration	8100			3.5617	3.7000	96.26
MIT	MIT		Calibration	16787			7.3322	7.4000	99.08
MIT	MIT		Calibration	42625			18.5469	18.5000	100.25
MIT	MIT		Calibration	85613			37.2055	37.0000	100.56
MIT	MIT		Sample	80			0.0806		
MIT	MIT		Sample	268			0.1619		
MIT	MIT		Sample	8716			3.8290		
MIT	MIT		Sample	8750			3.8438		
MIT	MIT		CC	18537			8.0918	7.4000	109.35
MIT	MIT		Sample	1439			0.6705		

Quantitative Analysis Summary Report

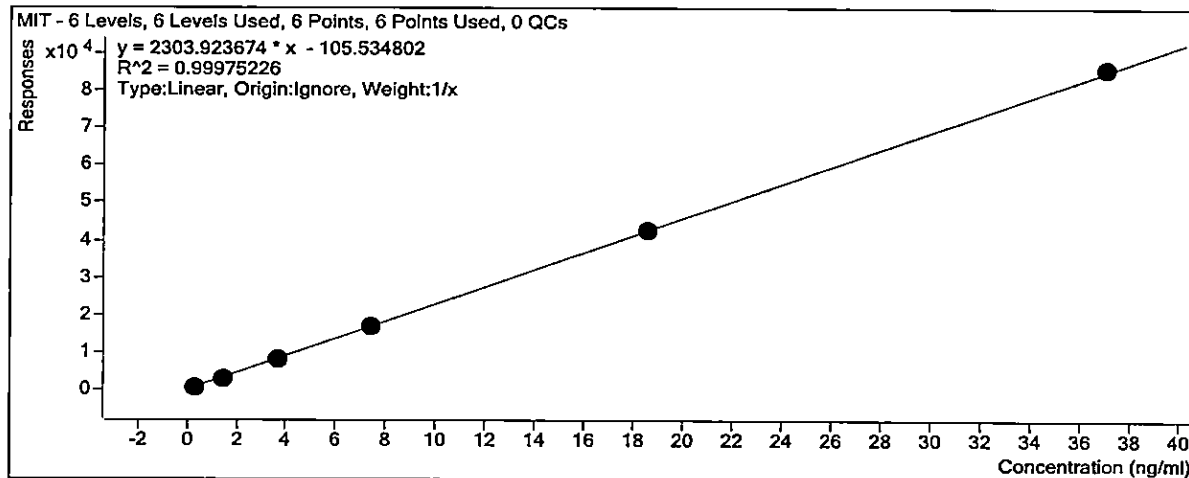
Data File	Compound	ISTD	Sample Type	Response	ISTD Resp	Resp Ratio	Final Conc	Exp Conc	Accuracy
0810015.d	MIT		Sample	14578			6.3734		
0810016.d	MIT		Sample	14774			6.4582		
0810017.d	MIT		CC	18658			8.1440	7.4000	110.05
Target Compound									
Data File	Compound	ISTD	Sample Type	Response	ISTD Resp	Resp Ratio	Final Conc	Exp Conc	Accuracy
0810003.d	CMIT		Calibration	784			1.1778	1.1300	104.23
0810004.d	CMIT		Calibration	3396			4.4493	4.5200	98.44
0810005.d	CMIT		Calibration	8515			10.8624	11.3000	96.13
0810006.d	CMIT		Calibration	18128			22.9031	22.6000	101.34
0810007.d	CMIT		Calibration	44699			56.1879	56.5000	99.45
0810008.d	CMIT		Calibration	90428			113.4695	113.0000	100.42
0810010.d	CMIT		Sample	35			0.2392		
0810011.d	CMIT		Sample	8917			11.3657		
0810012.d	CMIT		Sample	9173			11.6859		
0810013.d	CMIT		CC	19694			24.8648	22.6000	110.02
0810014.d	CMIT		Sample	60			0.2713		
0810015.d	CMIT		Sample	11792			14.9668		
0810016.d	CMIT		Sample	11580			14.7007		
0810017.d	CMIT		CC	17285			21.8471	22.6000	96.67

Quantitative Analysis Calibration Report

Batch Data Path D:\MassHunter\Data\0821\0810biocides\QuantResults\0810biocides.batch.bin
Analysis Time 8/11/2021 9:50 AM **Analyst Name** BCAMERICAS\msheltonlab
Report Time 8/11/2021 9:52 AM **Reporter Name** BCAMERICAS\msheltonlab
Last Calib Update 8/11/2021 9:50 AM **Batch State** Processed

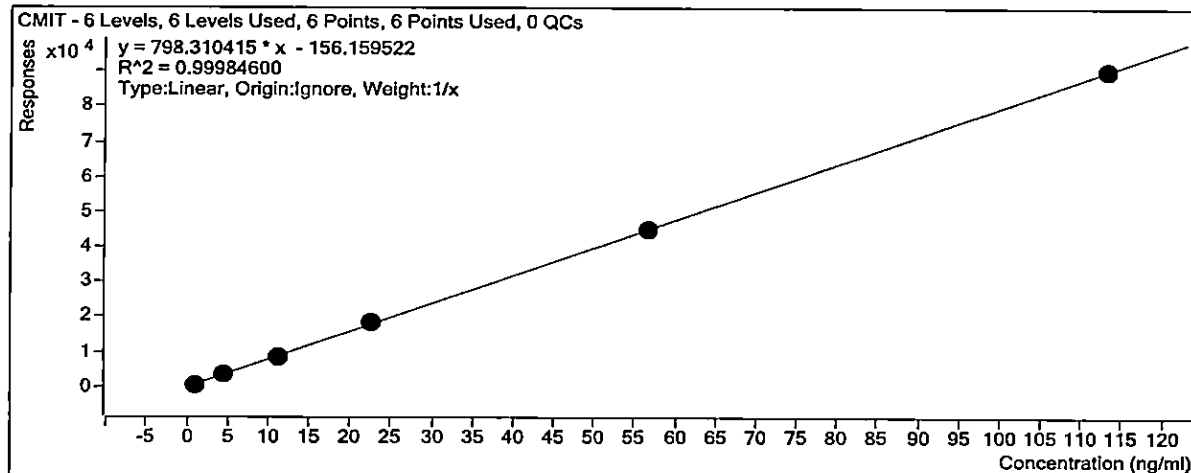
Calibration Info

Target Compound MIT



Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc	RF
D:\MassHunter\Data\0821\0810biocides\0810003.d	Calibration	L1	<input checked="" type="checkbox"/>	826	0.3700	2232.9416
D:\MassHunter\Data\0821\0810biocides\0810004.d	Calibration	L2	<input checked="" type="checkbox"/>	3118	1.4800	2106.9578
D:\MassHunter\Data\0821\0810biocides\0810005.d	Calibration	L3	<input checked="" type="checkbox"/>	8100	3.7000	2189.2690
D:\MassHunter\Data\0821\0810biocides\0810006.d	Calibration	L4	<input checked="" type="checkbox"/>	16787	7.4000	2268.5657
D:\MassHunter\Data\0821\0810biocides\0810013.d	CC	L4	<input checked="" type="checkbox"/>	18537	7.4000	2505.0465
D:\MassHunter\Data\0821\0810biocides\0810017.d	CC	L4	<input checked="" type="checkbox"/>	18658	7.4000	2521.3075
D:\MassHunter\Data\0821\0810biocides\0810007.d	Calibration	L5	<input checked="" type="checkbox"/>	42625	18.5000	2304.0658
D:\MassHunter\Data\0821\0810biocides\0810008.d	Calibration	L6	<input checked="" type="checkbox"/>	85613	37.0000	2313.8644

Target Compound CMIT



Quantitative Analysis Calibration Report

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc	RF
D:\MassHunter\Data\0821\0810biocides\0810003.d	Calibration	L1	<input checked="" type="checkbox"/>	784	1.1300	693.8983
D:\MassHunter\Data\0821\0810biocides\0810004.d	Calibration	L2	<input checked="" type="checkbox"/>	3396	4.5200	751.2825
D:\MassHunter\Data\0821\0810biocides\0810005.d	Calibration	L3	<input checked="" type="checkbox"/>	8515	11.3000	753.5740
D:\MassHunter\Data\0821\0810biocides\0810006.d	Calibration	L4	<input checked="" type="checkbox"/>	18128	22.6000	802.1086
D:\MassHunter\Data\0821\0810biocides\0810013.d	CC	L4	<input checked="" type="checkbox"/>	19694	22.6000	871.4017
D:\MassHunter\Data\0821\0810biocides\0810017.d	CC	L4	<input checked="" type="checkbox"/>	17285	22.6000	764.8068
D:\MassHunter\Data\0821\0810biocides\0810007.d	Calibration	L5	<input checked="" type="checkbox"/>	44699	56.5000	791.1362
D:\MassHunter\Data\0821\0810biocides\0810008.d	Calibration	L6	<input checked="" type="checkbox"/>	90428	113.0000	800.2451

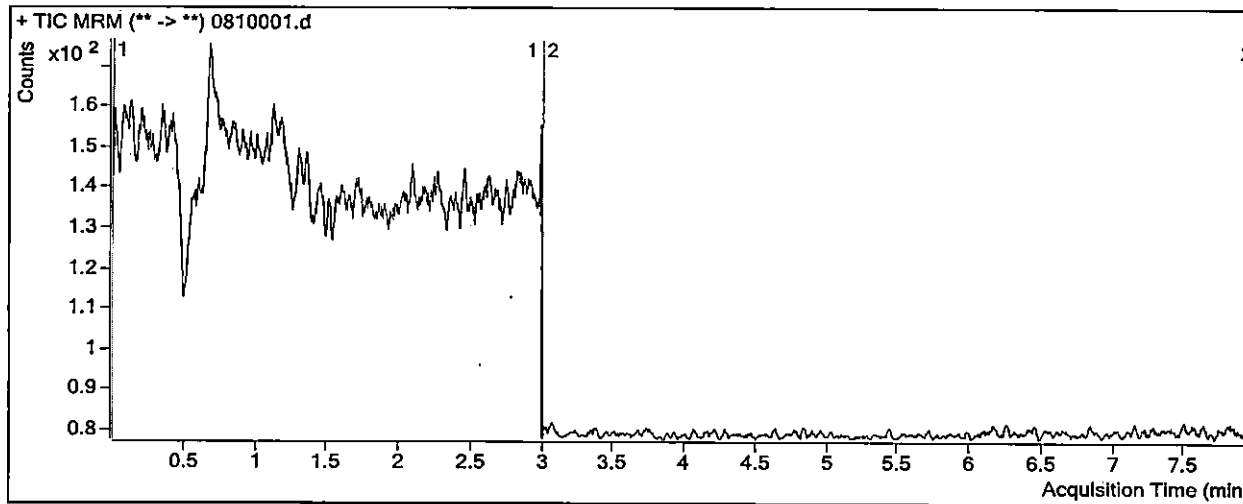
Quantitative Analysis Sample Report

Batch Data Path	D:\MassHunter\Data\0821\0810biocides\QuantResults\0810biocides.batch.bin		
Analysis Time	8/11/2021 9:50 AM	Analyst Name	BCAMERICAS\msheltonlab
Report Time	8/11/2021 9:52 AM	Reporter Name	BCAMERICAS\msheltonlab
Last Calib Update	8/11/2021 9:50 AM	Batch State	Processed

Analysis Info

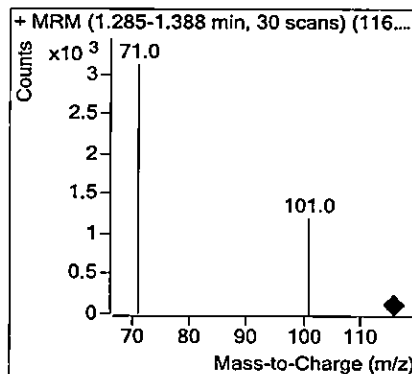
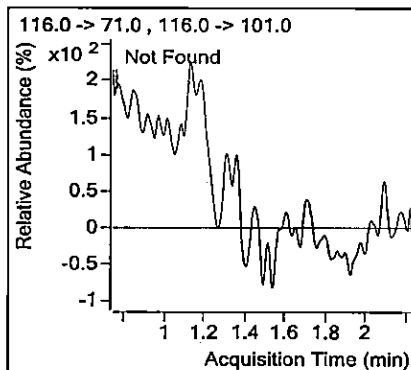
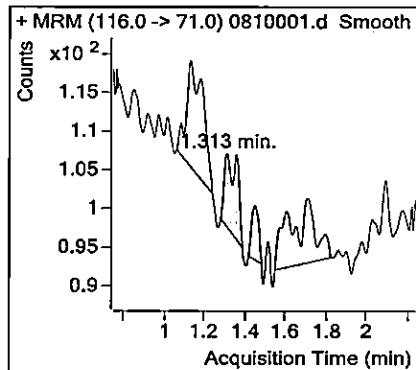
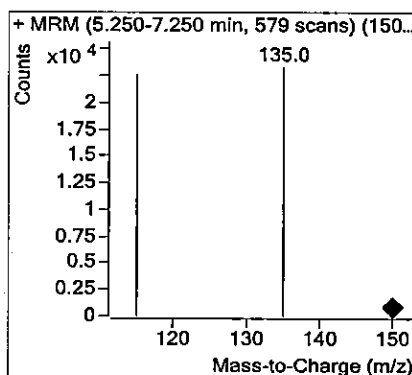
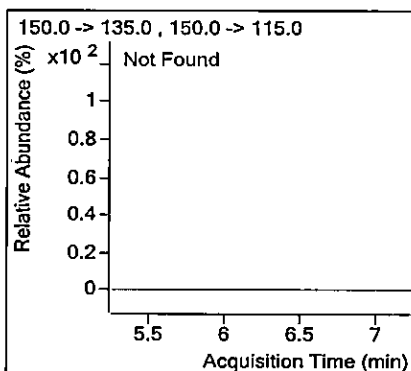
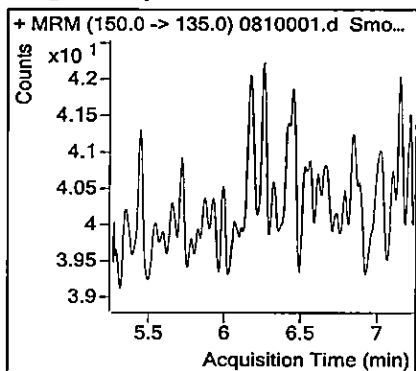
Acq Time	2021-08-10 16:33	Data File	0810001.d
Position	Vial 1	Sample Name	Water
Dilution	1	Sample Info	
Inj Vol	-1	Acq Method File	Biocides.m
Sample Type	Sample	Comment	

Sample Chromatogram



Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	RR	Conc	Units
MIT		1.313	44			0.0651	ng/ml

Quantitative Analysis Sample Report**Compound Graphics****Target Compound** MIT**Target Compound** CMIT

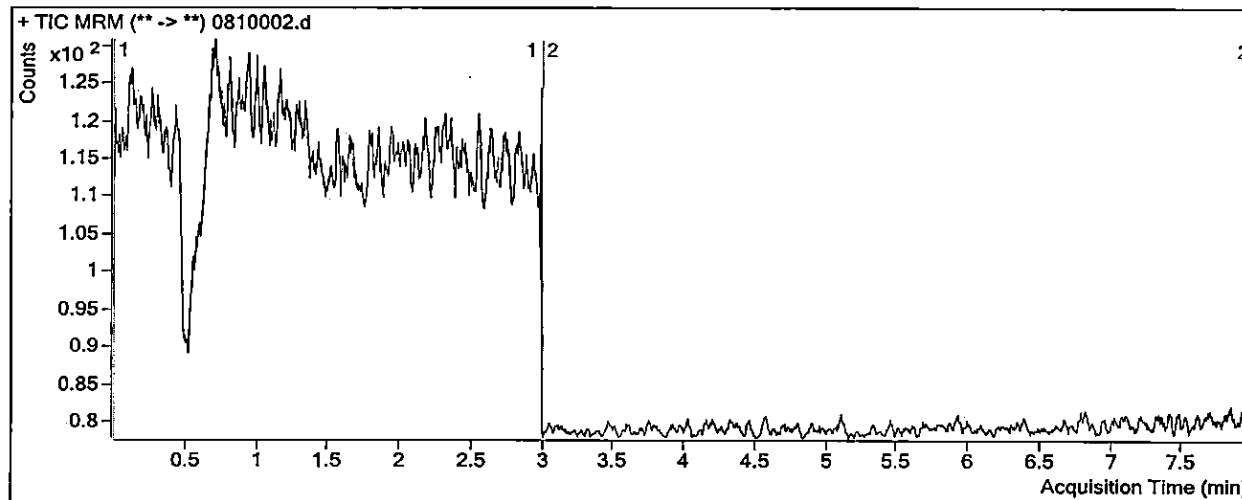
Quantitative Analysis Sample Report

Batch Data Path	D:\MassHunter\Data\0821\0810biocides\QuantResults\0810biocides.batch.bin		
Analysis Time	8/11/2021 9:50 AM	Analyst Name	BCAMERICAS\msheltonlab
Report Time	8/11/2021 9:52 AM	Reporter Name	BCAMERICAS\msheltonlab
Last Calib Update	8/11/2021 9:50 AM	Batch State	Processed

Analysis Info

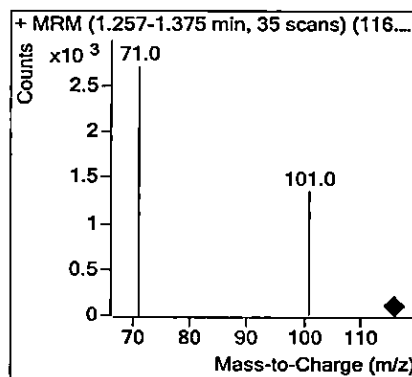
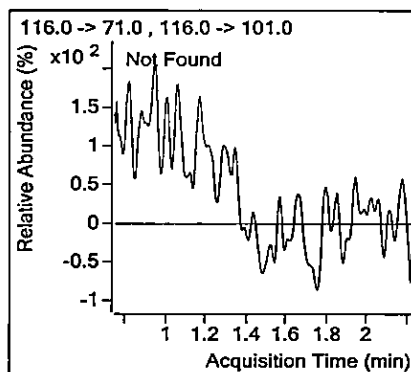
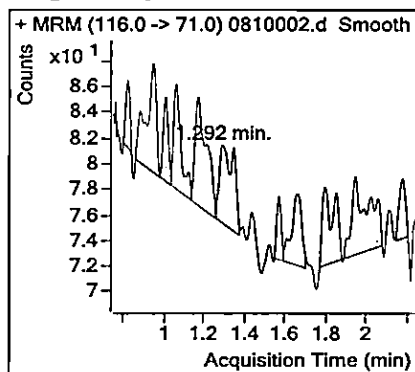
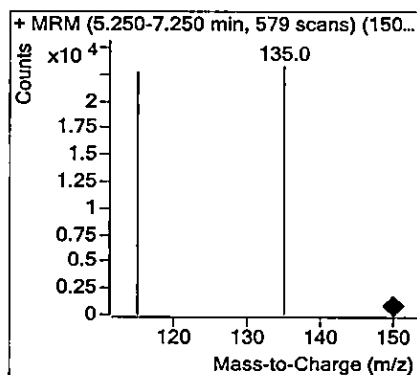
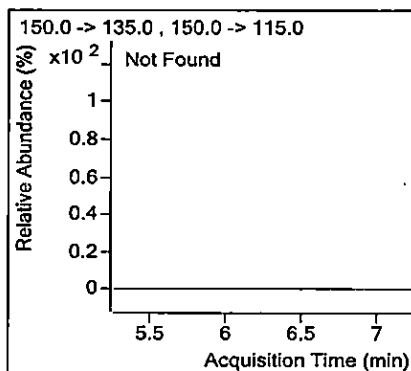
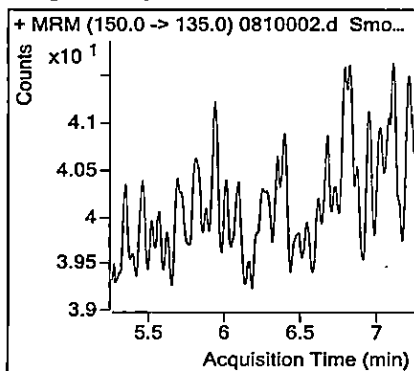
Acq Time	2021-08-10 16:50	Data File	0810002.d
Position	Vial 1	Sample Name	Water
Dilution	1	Sample Info	
Inj Vol	-1	Acq Method File	Biocides.m
Sample Type	Sample	Comment	

Sample Chromatogram



Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	RR	Conc	Units
MIT		1.292	32			0.0597	ng/ml

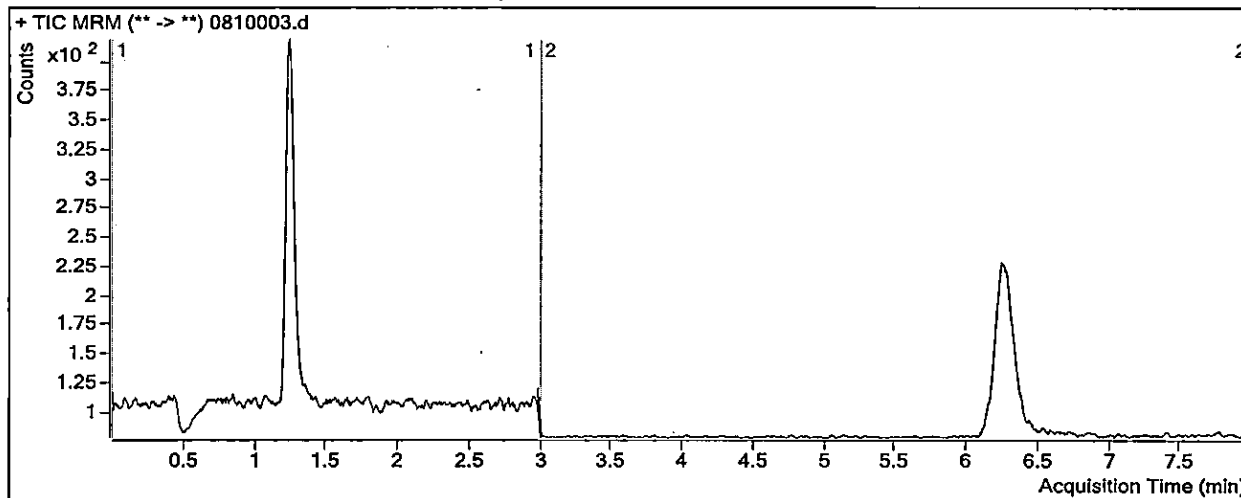
Quantitative Analysis Sample Report**Compound Graphics****Target Compound** MIT**Target Compound** CMIT

Quantitative Analysis Sample Report

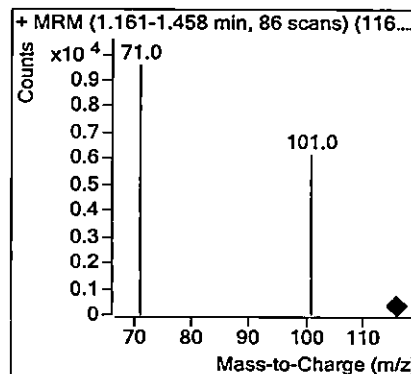
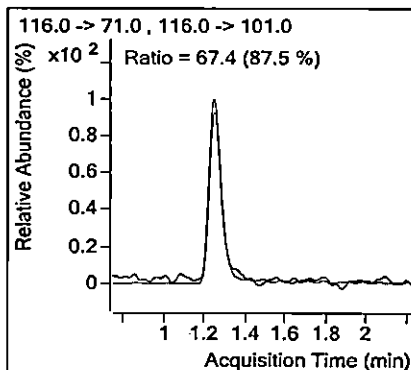
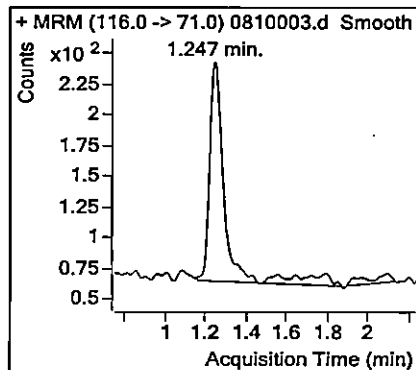
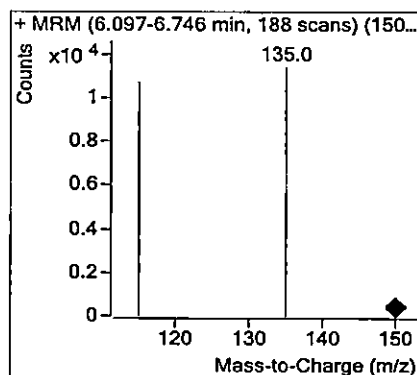
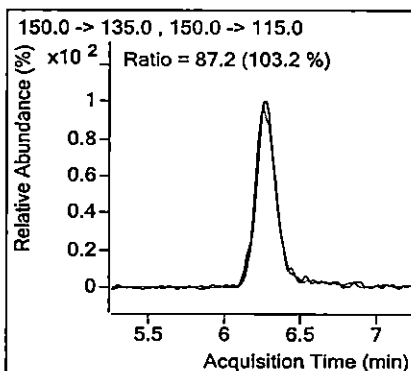
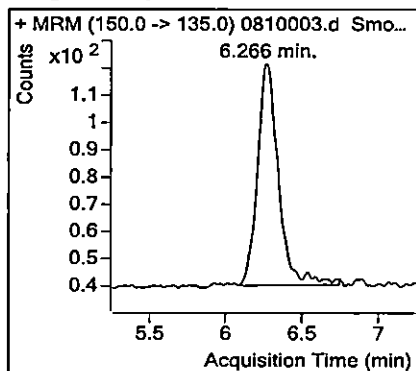
Batch Data Path D:\MassHunter\Data\0821\0810biocides\QuantResults\0810biocides.batch.bin
Analysis Time 8/11/2021 9:50 AM **Analyst Name** BCAMERICAS\msheltonlab
Report Time 8/11/2021 9:52 AM **Reporter Name** BCAMERICAS\msheltonlab
Last Calib Update 8/11/2021 9:50 AM **Batch State** Processed

Analysis Info

Acq Time 2021-08-10 17:07 **Data File** 0810003.d
Position Vial 2 **Sample Name** 1.5 ppb MIT/CMIT
Dilution 1 **Sample Info**
Inj Vol -1 **Acq Method File** Biocides.m
Sample Type Calibration **Comment** 2357-0810-070-2 exp 08-17-2021

Sample Chromatogram**Quantitation Results**

Compound	ISTD	RT	Response	ISTD Resp	RR	Conc	Units
MIT		1.247	826			0.4044	ng/ml
CMIT		6.266	784			1.1778	ng/ml

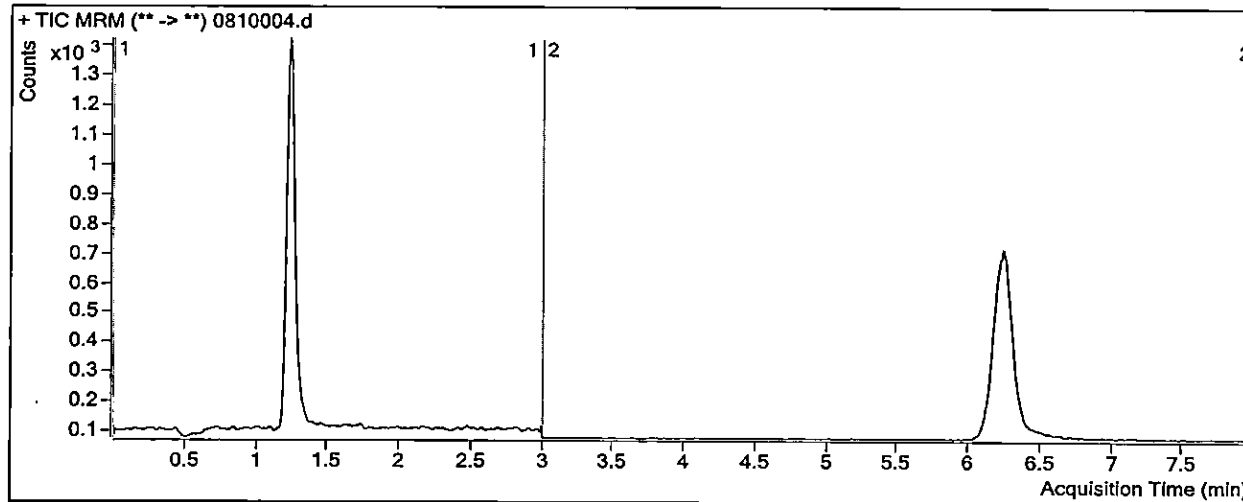
Quantitative Analysis Sample Report**Compound Graphics****Target Compound** MIT**Target Compound** CMIT

Quantitative Analysis Sample Report

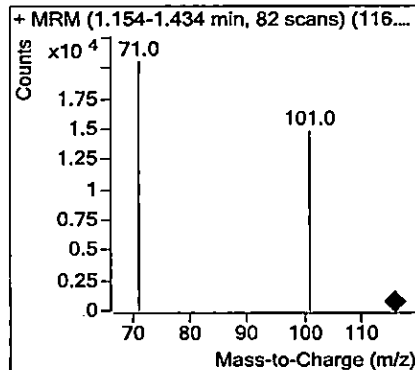
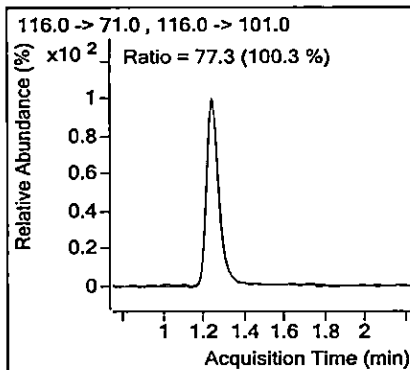
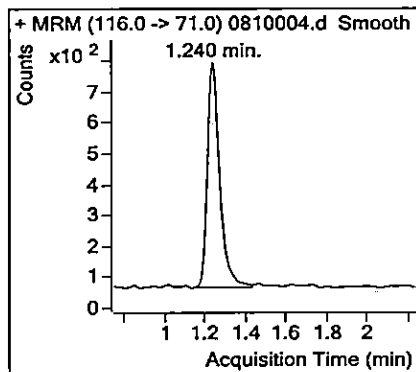
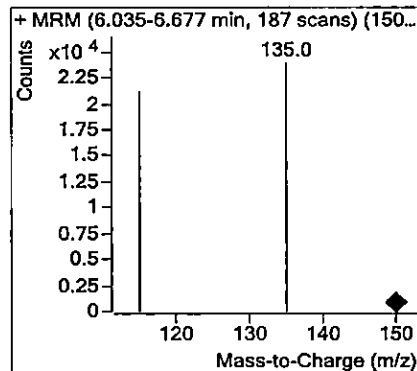
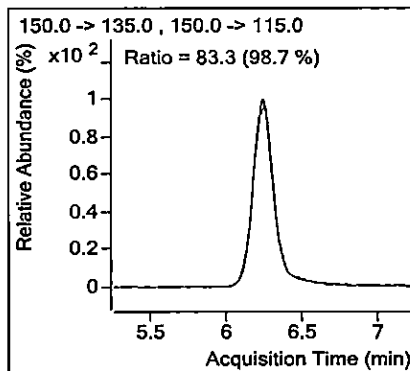
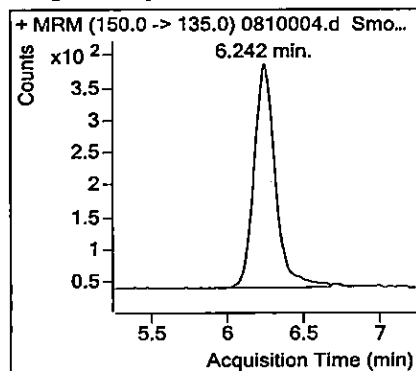
Batch Data Path D:\MassHunter\Data\0821\0810biocides\QuantResults\0810biocides.batch.bin
Analysis Time 8/11/2021 9:50 AM **Analyst Name** BCAMERICAS\msheltonlab
Report Time 8/11/2021 9:52 AM **Reporter Name** BCAMERICAS\msheltonlab
Last Calib Update 8/11/2021 9:50 AM **Batch State** Processed

Analysis Info

Acq Time 2021-08-10 17:25 **Data File** 0810004.d
Position Vial 3 **Sample Name** 6 ppb MIT/CMIT
Dilution 1 **Sample Info**
Inj Vol -1 **Acq Method File** Biocides.m
Sample Type Calibration **Comment** 2357-0810-070-3 exp 08-17-2021

Sample Chromatogram**Quantitation Results**

Compound	ISTD	RT	Response	ISTD Resp	RR	Conc	Units
MIT		1.240	3118			1.3993	ng/ml
CMIT		6.242	3396			4.4493	ng/ml

Quantitative Analysis Sample Report**Compound Graphics****Target Compound** MIT**Target Compound** CMIT

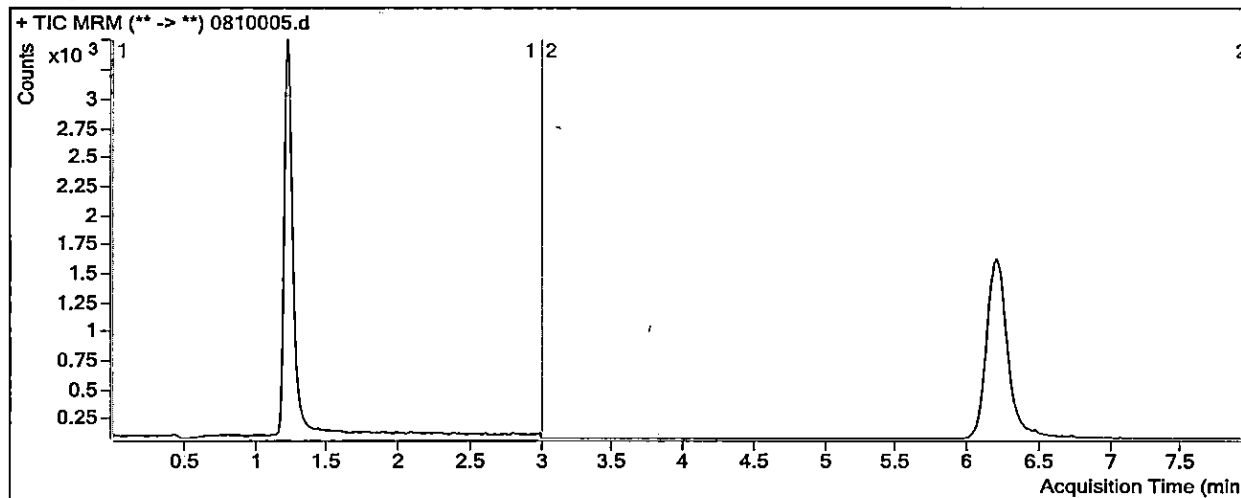
Quantitative Analysis Sample Report

Batch Data Path D:\MassHunter\Data\0821\0810biocides\QuantResults\0810biocides.batch.bin
Analysis Time 8/11/2021 9:50 AM **Analyst Name** BCAMERICAS\msheltonlab
Report Time 8/11/2021 9:52 AM **Reporter Name** BCAMERICAS\msheltonlab
Last Calib Update 8/11/2021 9:50 AM **Batch State** Processed

Analysis Info

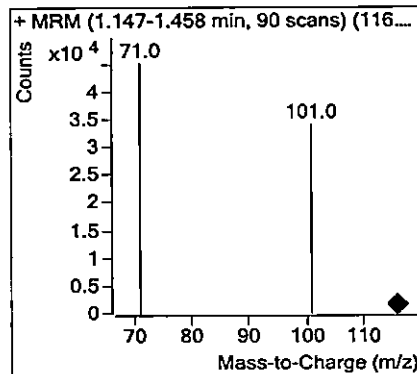
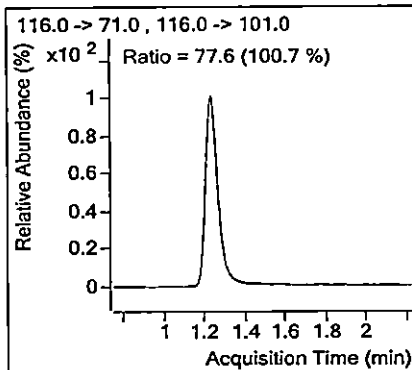
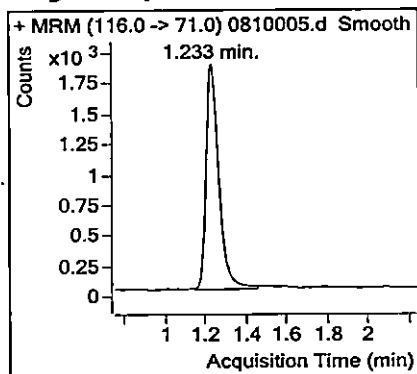
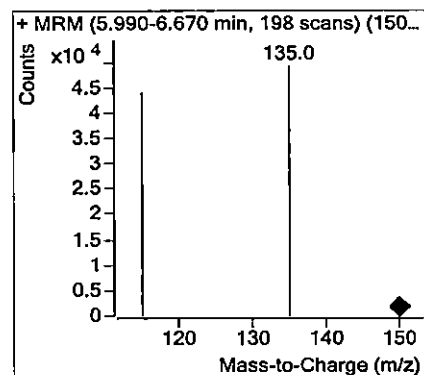
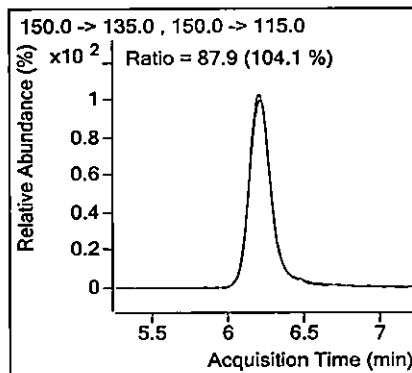
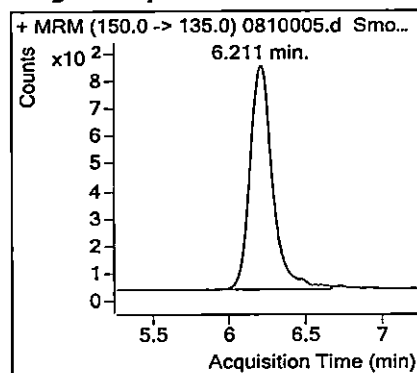
Acq Time 2021-08-10 17:42 **Data File** 0810005.d
Position Vial 4 **Sample Name** 15 ppb MIT/CMIT
Dilution 1 **Sample Info**
Inj Vol -1 **Acq Method File** Biocides.m
Sample Type Calibration **Comment** 2357-0810-071-3 exp 08-17-2021

Sample Chromatogram



Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	RR	Conc	Units
MIT		1.233	8100			3.5617	ng/ml
CMIT		6.211	8515			10.8624	ng/ml

Quantitative Analysis Sample Report**Compound Graphics****Target Compound** MIT**Target Compound** CMIT

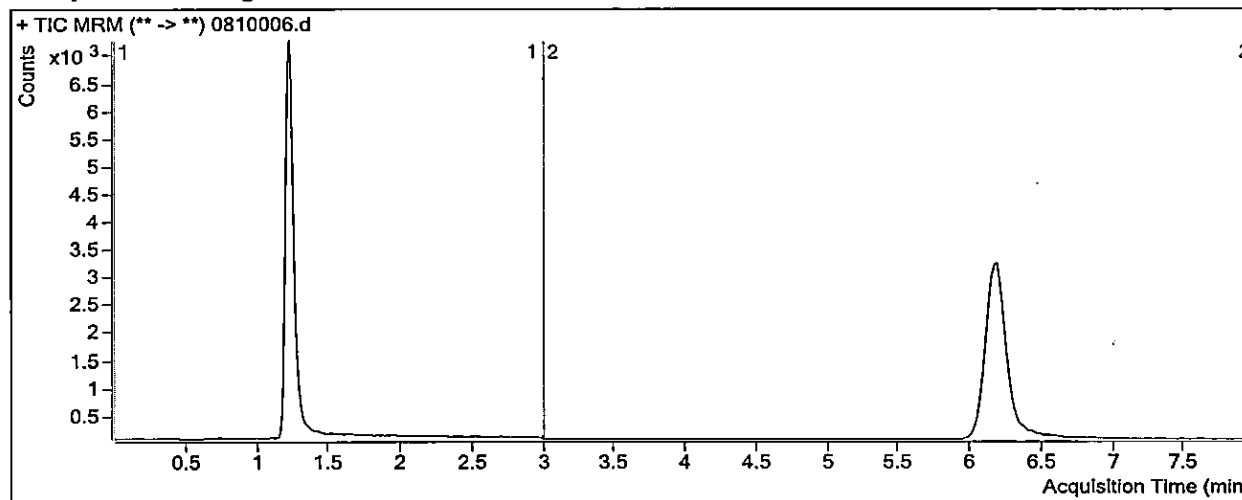
Quantitative Analysis Sample Report

Batch Data Path D:\MassHunter\Data\0821\0810biocides\QuantResults\0810biocides.batch.bin
Analysis Time 8/11/2021 9:50 AM **Analyst Name** BCAMERICAS\msheltonlab
Report Time 8/11/2021 9:52 AM **Reporter Name** BCAMERICAS\msheltonlab
Last Calib Update 8/11/2021 9:50 AM **Batch State** Processed

Analysis Info

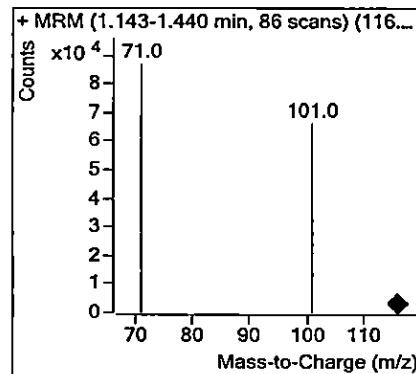
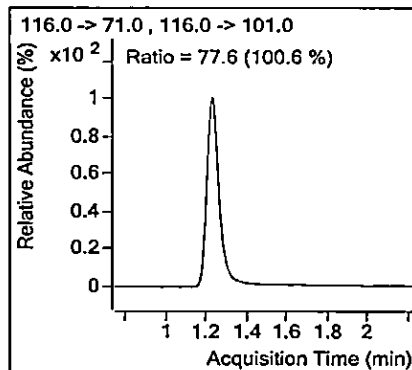
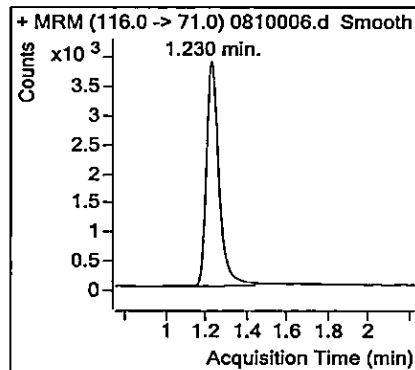
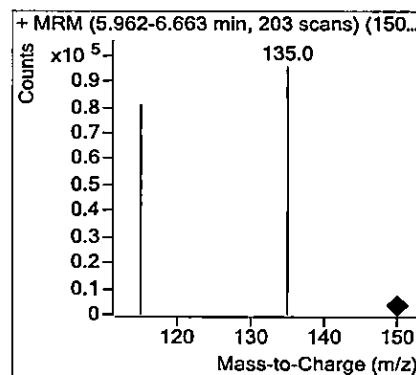
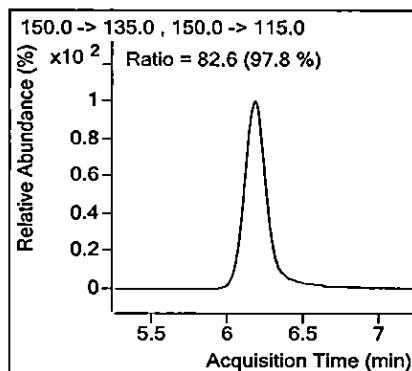
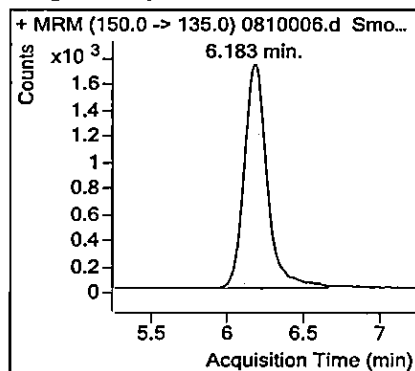
Acq Time 2021-08-10 17:59 **Data File** 0810006.d
Position Vial 5 **Sample Name** 30 ppb MIT/CMIT
Dilution 1 **Sample Info**
Inj Vol -1 **Acq Method File** Biocides.m
Sample Type Calibration **Comment** 2357-0810-071-1 exp 08-17-2021

Sample Chromatogram



Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	RR	Conc	Units
MIT		1.230	16787			7.3322	ng/ml
CMIT		6.183	18128			22.9031	ng/ml

Quantitative Analysis Sample Report**Compound Graphics****Target Compound** MIT**Target Compound** CMIT

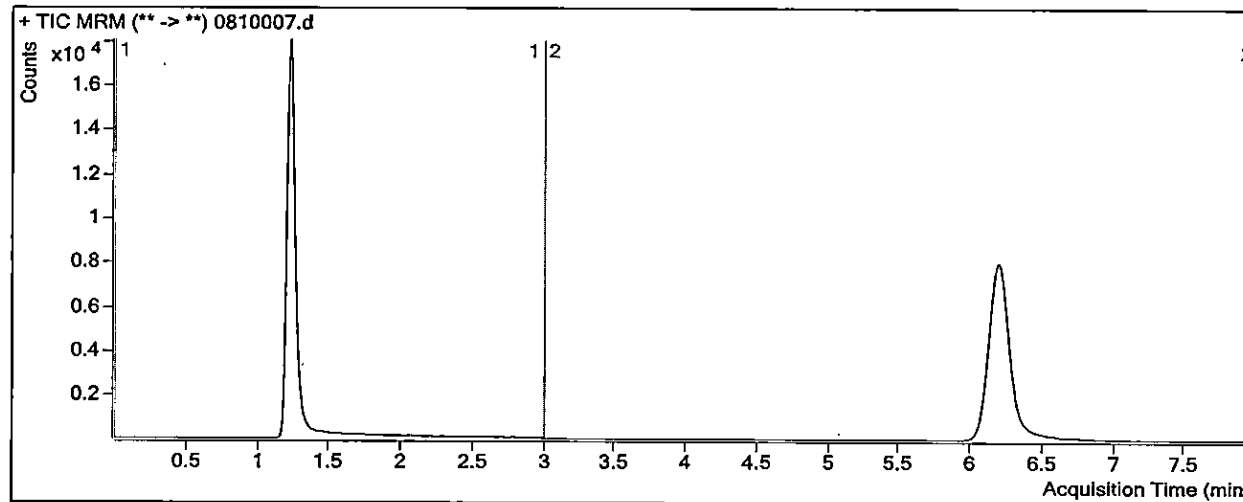
Quantitative Analysis Sample Report

Batch Data Path	D:\MassHunter\Data\0821\0810biocides\QuantResults\0810biocides.batch.bin		
Analysis Time	8/11/2021 9:50 AM	Analyst Name	BCAMERICAS\msheltonlab
Report Time	8/11/2021 9:52 AM	Reporter Name	BCAMERICAS\msheltonlab
Last Calib Update	8/11/2021 9:50 AM	Batch State	Processed

Analysis Info

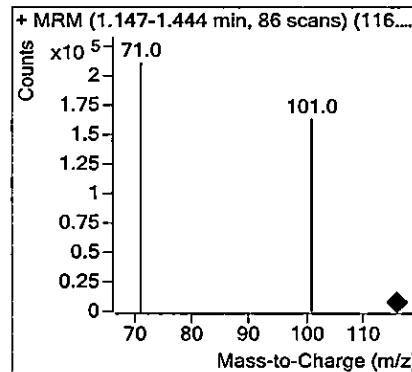
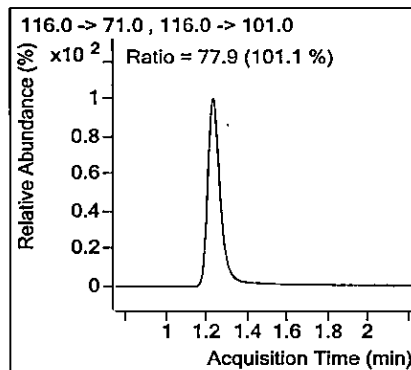
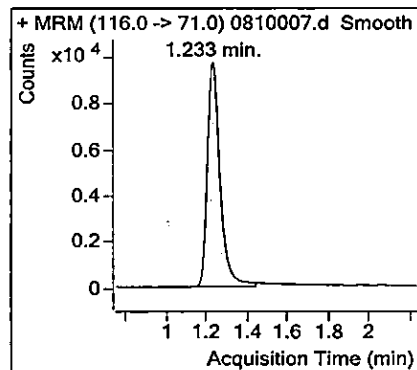
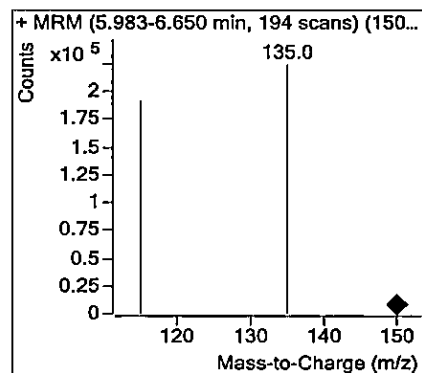
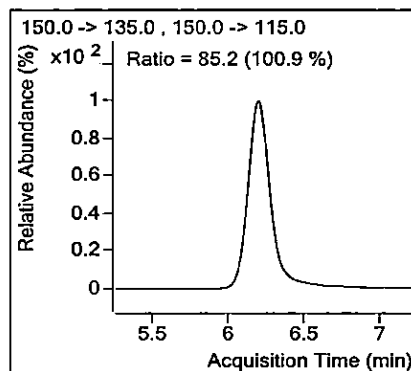
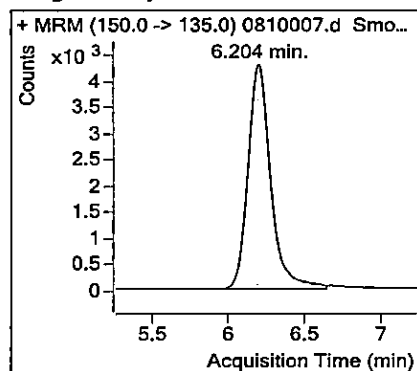
Acq Time	2021-08-10 18:16	Data File	0810007.d
Position	Vial 6	Sample Name	75 ppb MIT/CMIT
Dilution	1	Sample Info	
Inj Vol	-1	Acq Method File	Biocides.m
Sample Type	Calibration	Comment	2357-0810-070-1 exp 08-17-2021

Sample Chromatogram



Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	RR	Conc	Units
MIT		1.233	42625			18.5469	ng/ml
CMIT		6.204	44699			56.1879	ng/ml

Quantitative Analysis Sample Report**Compound Graphics****Target Compound** MIT**Target Compound** CMIT

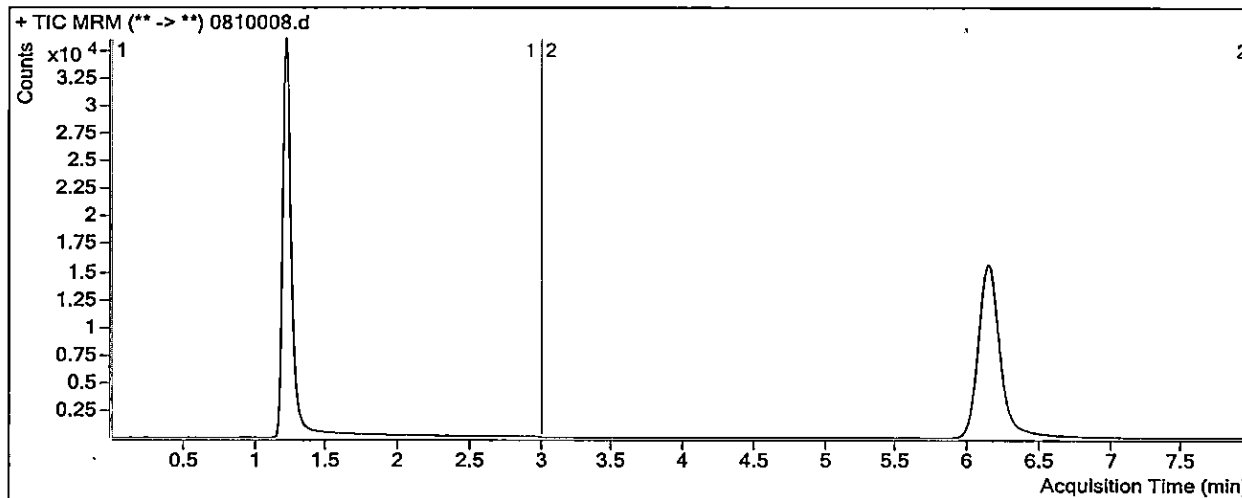
Quantitative Analysis Sample Report

Batch Data Path	D:\MassHunter\Data\0821\0810biocides\QuantResults\0810biocides.batch.bin		
Analysis Time	8/11/2021 9:50 AM	Analyst Name	BCAMERICAS\msheltonlab
Report Time	8/11/2021 9:52 AM	Reporter Name	BCAMERICAS\msheltonlab
Last Calib Update	8/11/2021 9:50 AM	Batch State	Processed

Analysis Info

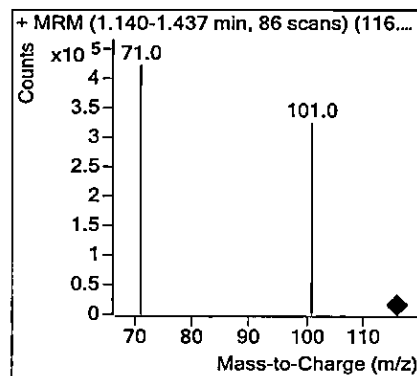
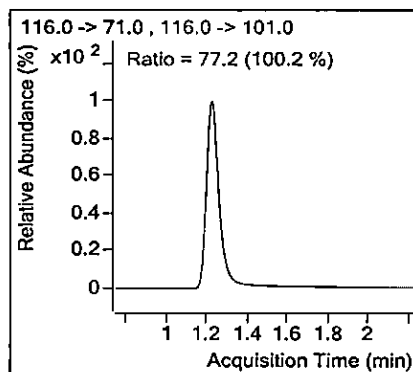
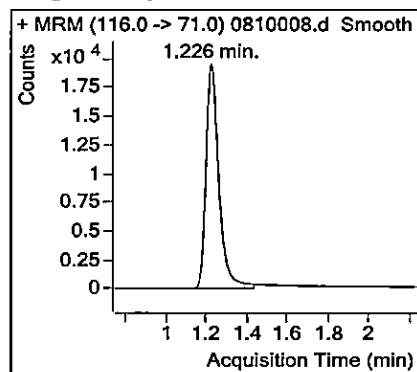
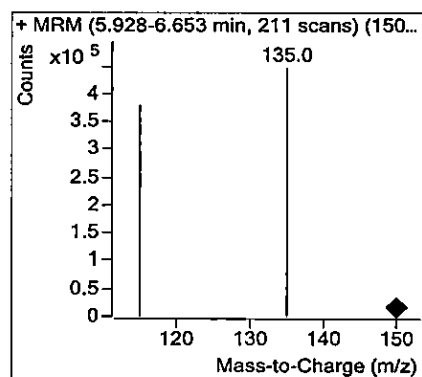
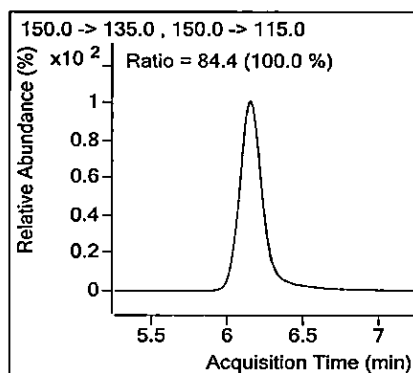
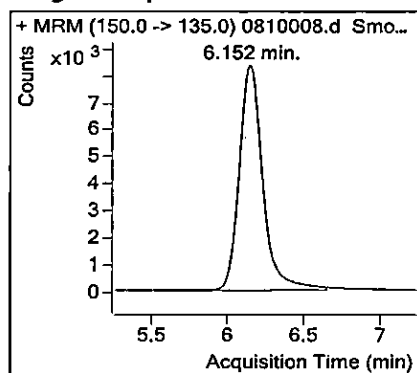
Acq Time	2021-08-10 18:34	Data File	0810008.d
Position	Vial 7	Sample Name	150 ppb MIT/CMIT
Dilution	1	Sample Info	
Inj Vol	-1	Acq Method File	Biocides.m
Sample Type	Calibration	Comment	2357-0810-071-2 exp 08-17-2021

Sample Chromatogram



Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	RR	Conc	Units
MIT		1.226	85613			37.2055	ng/ml
CMIT		6.152	90428			113.4695	ng/ml

Quantitative Analysis Sample Report**Compound Graphics****Target Compound** MIT**Target Compound** CMIT

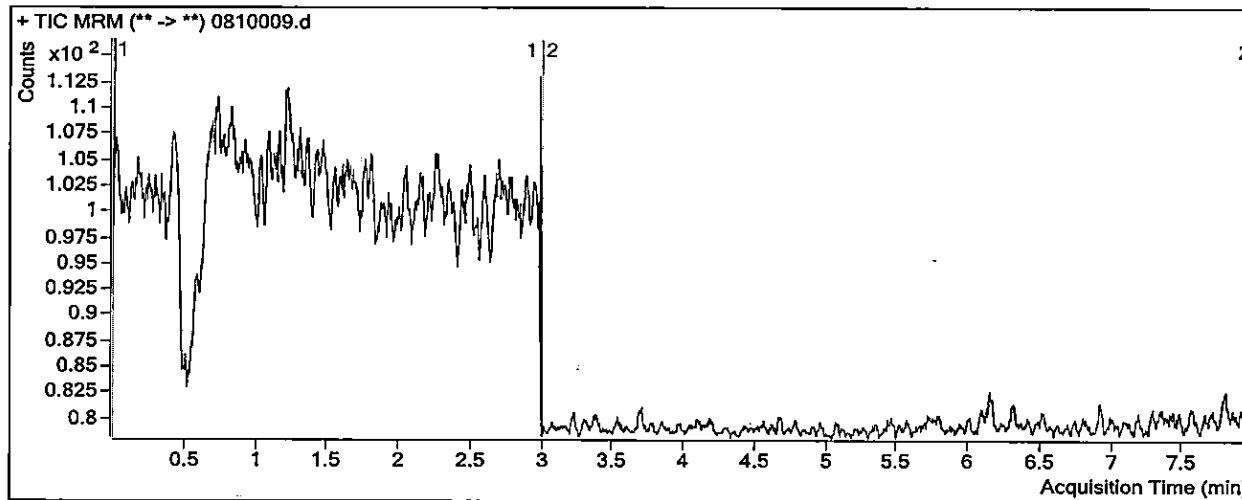
Quantitative Analysis Sample Report

Batch Data Path D:\MassHunter\Data\0821\0810biocides\QuantResults\0810biocides.batch.bin
Analysis Time 8/11/2021 9:50 AM **Analyst Name** BCAMERICAS\msheltonlab
Report Time 8/11/2021 9:52 AM **Reporter Name** BCAMERICAS\msheltonlab
Last Calib Update 8/11/2021 9:50 AM **Batch State** Processed

Analysis Info

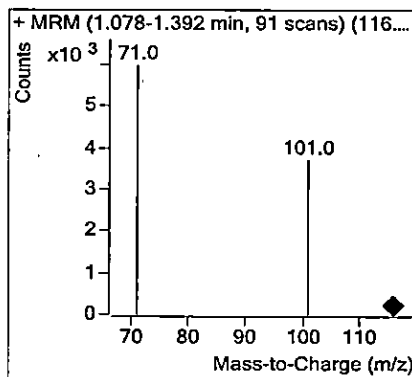
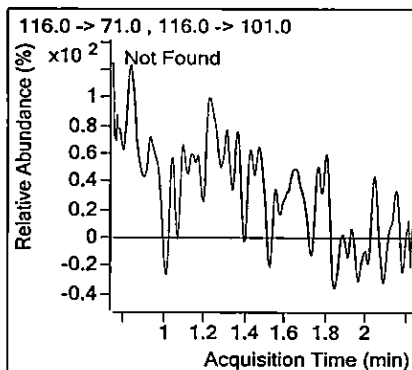
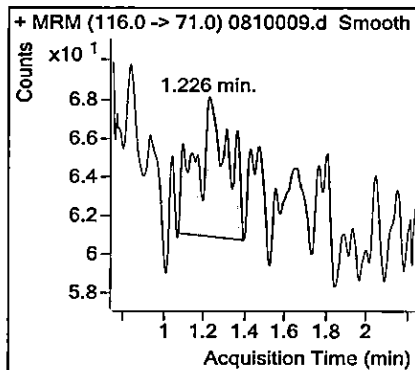
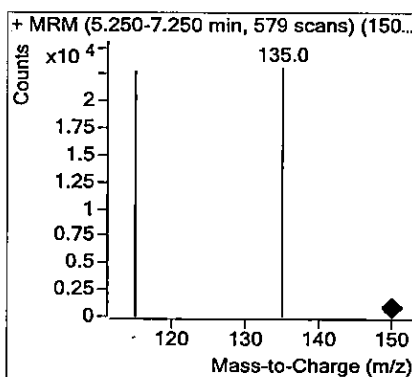
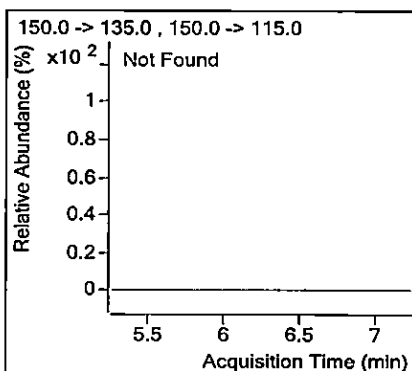
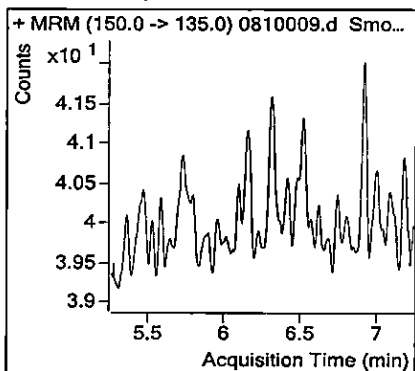
Acq Time 2021-08-10 18:51 **Data File** 0810009.d
Position Vial 1 **Sample Name** Water
Dilution 1 **Sample Info**
Inj Vol -1 **Acq Method File** Biocides.m
Sample Type Sample **Comment** 249067 Spectrum

Sample Chromatogram



Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	RR	Conc	Units
MIT		1.226	80			0.0806	ng/ml

Quantitative Analysis Sample Report**Compound Graphics****Target Compound** MIT**Target Compound** CMIT

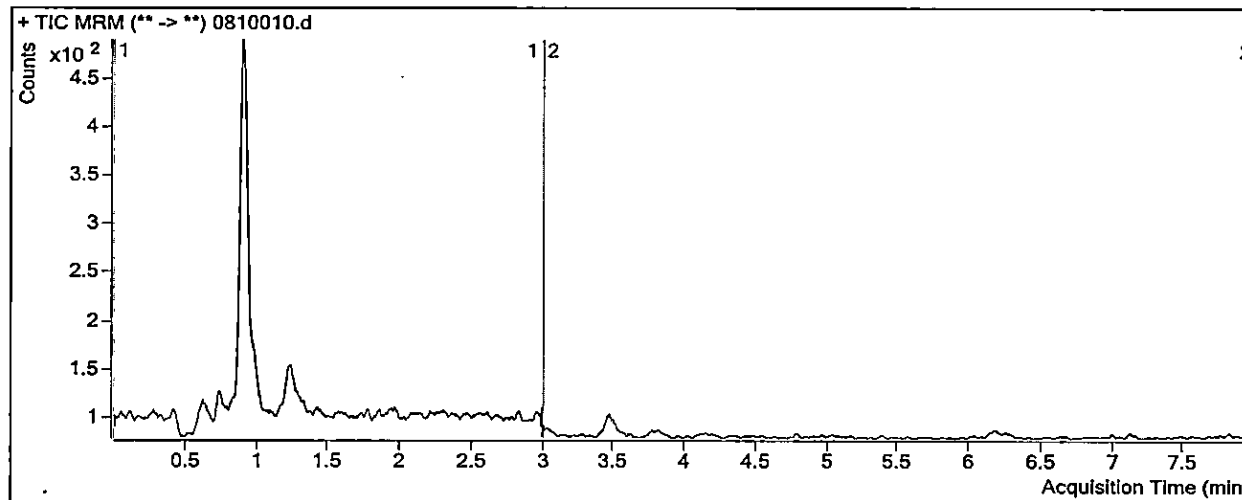
Quantitative Analysis Sample Report

Batch Data Path	D:\MassHunter\Data\0821\0810biocides\QuantResults\0810biocides.batch.bin		
Analysis Time	8/11/2021 9:50 AM	Analyst Name	BCAMERICAS\msheltonlab
Report Time	8/11/2021 9:52 AM	Reporter Name	BCAMERICAS\msheltonlab
Last Calib Update	8/11/2021 9:50 AM	Batch State	Processed

Analysis Info

Acq Time	2021-08-10 19:08	Data File	0810010.d
Position	Vial 8	Sample Name	000279833OPP
Dilution	1	Sample Info	
Inj Vol	-1	Acq Method File	Biocides.m
Sample Type	Sample	Comment	249067 Spectrum 1:10

Sample Chromatogram



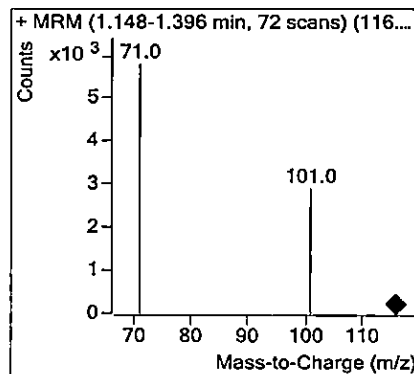
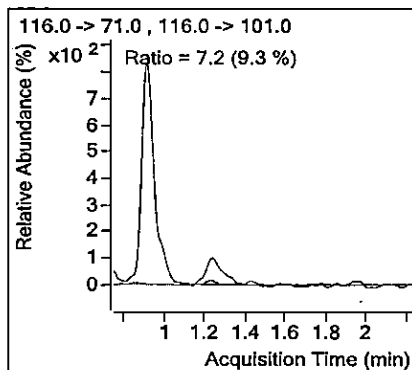
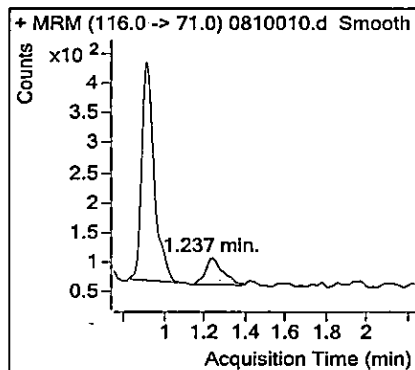
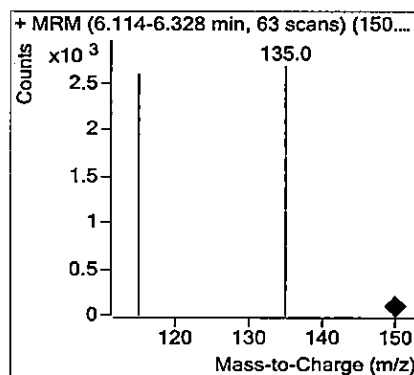
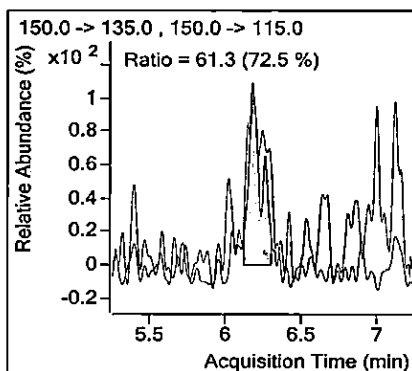
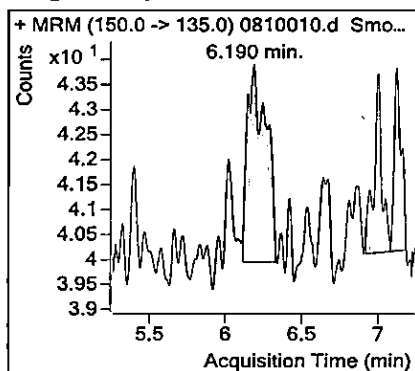
Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	RR	Conc	Units
MIT		1.237	268			0.1619	ng/ml
CMIT		6.190	35			0.2392	ng/ml

Data Not Used

Reason:

☐ Preliminary injections/Method set-up☒ Other: life straight runInitials/Date: W 08-11-2021

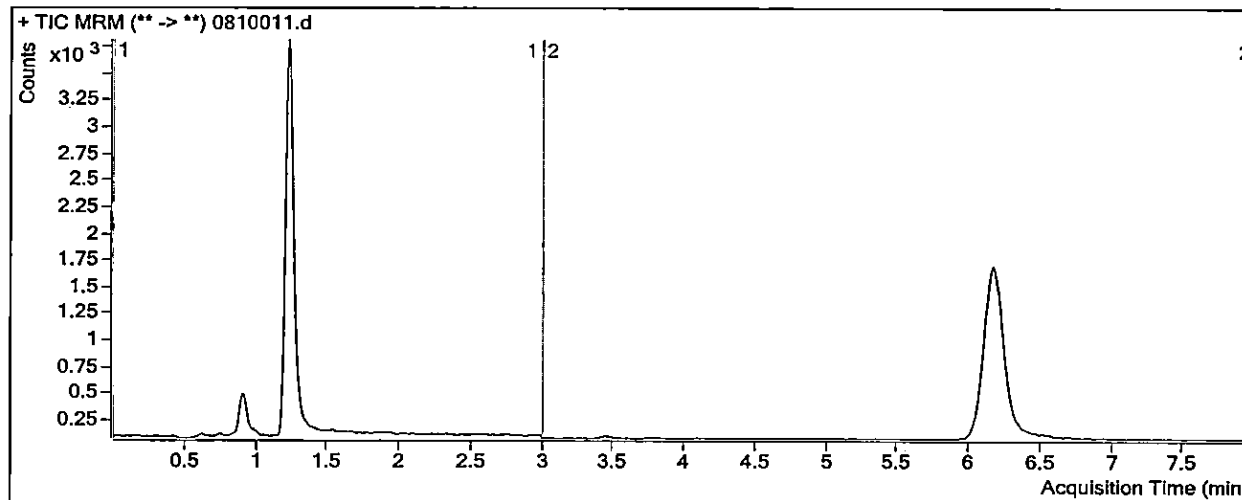
Quantitative Analysis Sample Report**Compound Graphics****Target Compound** MIT**Target Compound** CMIT

Quantitative Analysis Sample Report

Batch Data Path D:\MassHunter\Data\0821\0810biocides\QuantResults\0810biocides.batch.bin
Analysis Time 8/11/2021 9:50 AM **Analyst Name** BCAMERICAS\msheltonlab
Report Time 8/11/2021 9:52 AM **Reporter Name** BCAMERICAS\msheltonlab
Last Calib Update 8/11/2021 9:50 AM **Batch State** Processed

Analysis Info

Acq Time 2021-08-10 19:26 **Data File** 0810011.d
Position Vial 9 **Sample Name** 000279833OPP MS
Dilution 1 **Sample Info**
Inj Vol -1 **Acq Method File** Biocides.m
Sample Type Sample **Comment** 249067 Spectrum 1:10

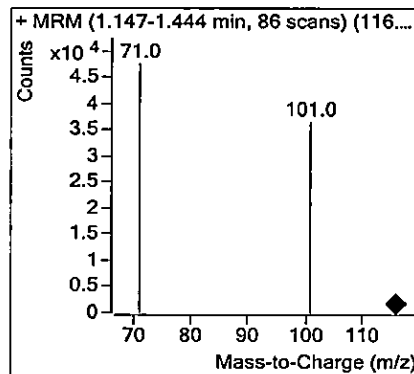
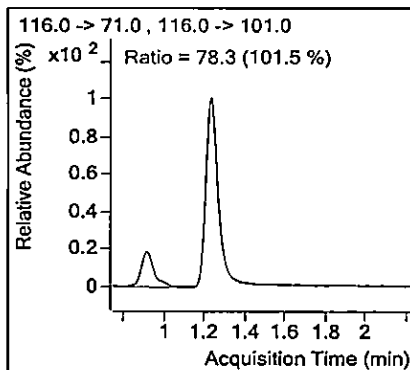
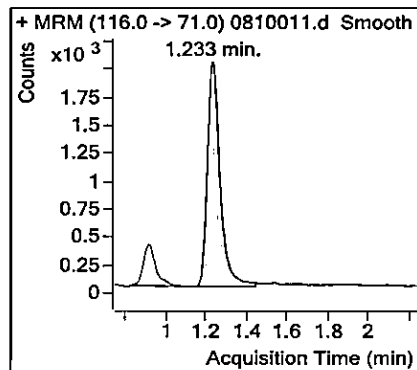
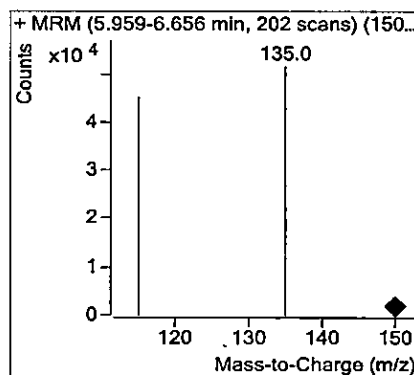
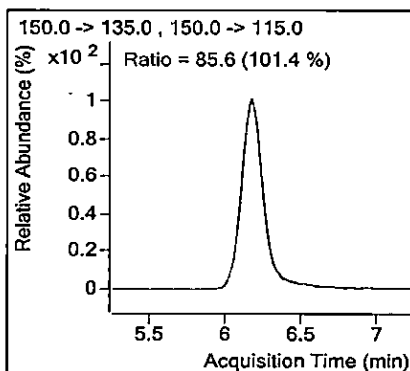
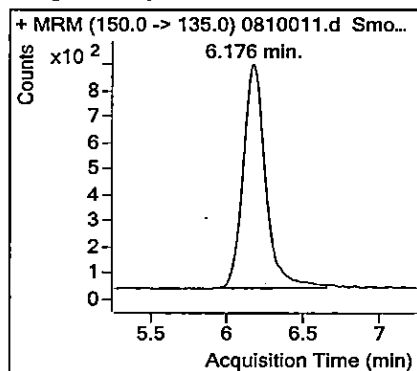
Sample Chromatogram**Quantitation Results**

Compound	ISTD	RT	Response	ISTD Resp	RR	Conc	Units
MIT		1.233	8716			3.8290	ng/ml
CMIT		6.176	8917			11.3657	ng/ml

Data Not Used

Reason:

☐ Preliminary injections/Method set-up☒ Other: Use straight runInitials/Date: mm 08-11-2021

Quantitative Analysis Sample Report**Compound Graphics****Target Compound** MIT**Target Compound** CMIT

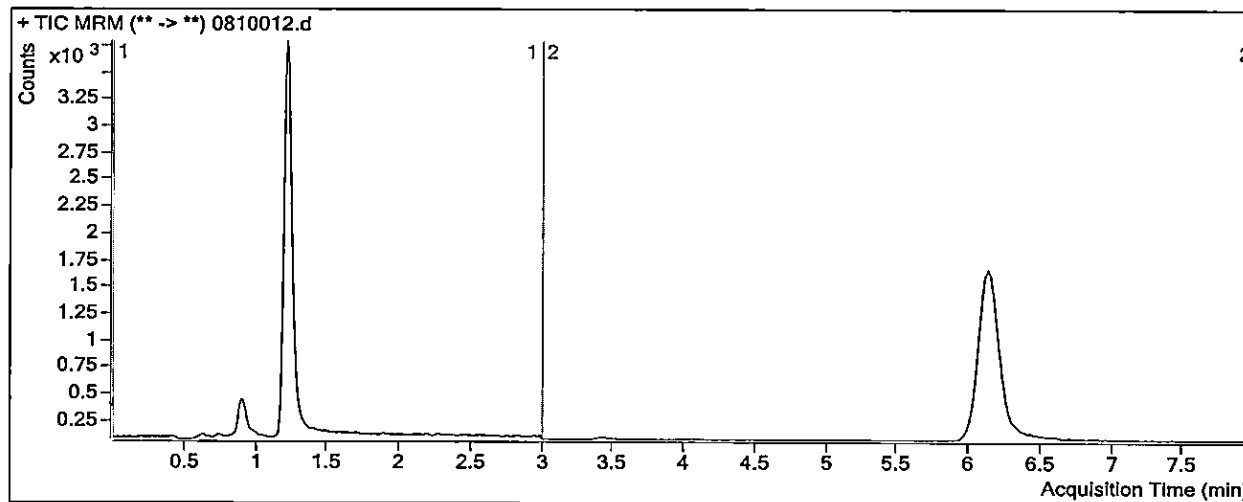
Quantitative Analysis Sample Report

Batch Data Path	D:\MassHunter\Data\0821\0810biocides\QuantResults\0810biocides.batch.bin		
Analysis Time	8/11/2021 9:50 AM	Analyst Name	BCAMERICAS\msheltonlab
Report Time	8/11/2021 9:52 AM	Reporter Name	BCAMERICAS\msheltonlab
Last Calib Update	8/11/2021 9:50 AM	Batch State	Processed

Analysis Info

Acq Time	2021-08-10 19:43	Data File	0810012.d
Position	Vial 10	Sample Name	000279833OPP MSD
Dilution	1	Sample Info	
Inj Vol	-1	Acq Method File	Biocides.m
Sample Type	Sample	Comment	249067 Spectrum 1:10

Sample Chromatogram



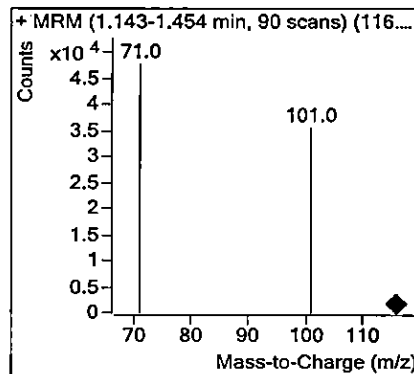
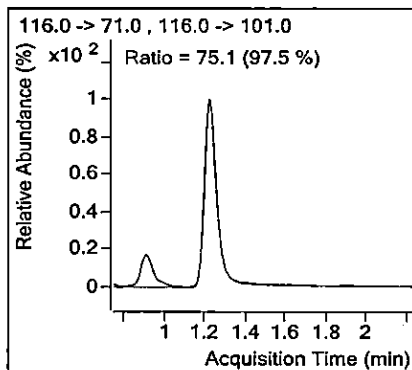
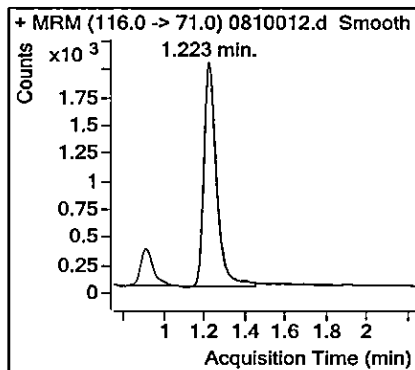
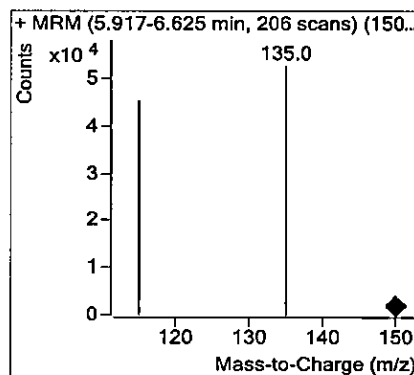
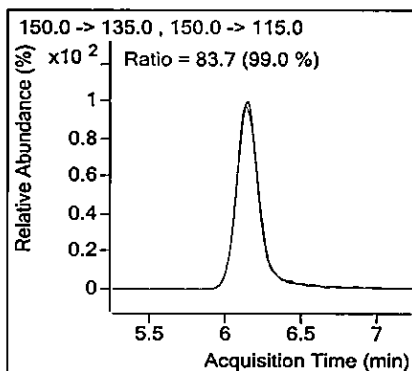
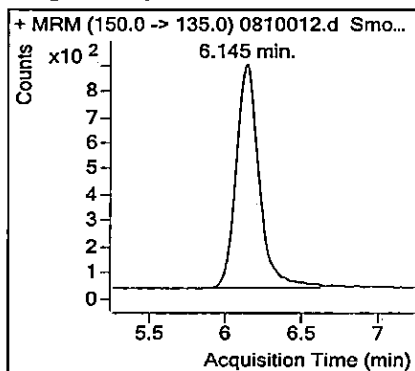
Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	RR	Conc	Units
MIT		1.223	8750			3.8438	ng/ml
CMIT		6.145	9173			11.6859	ng/ml

Data Not Used

Reason:

☐ Preliminary injections/Method set-up☒ Other: Use straight runInitials/Date: W 08/11/2021

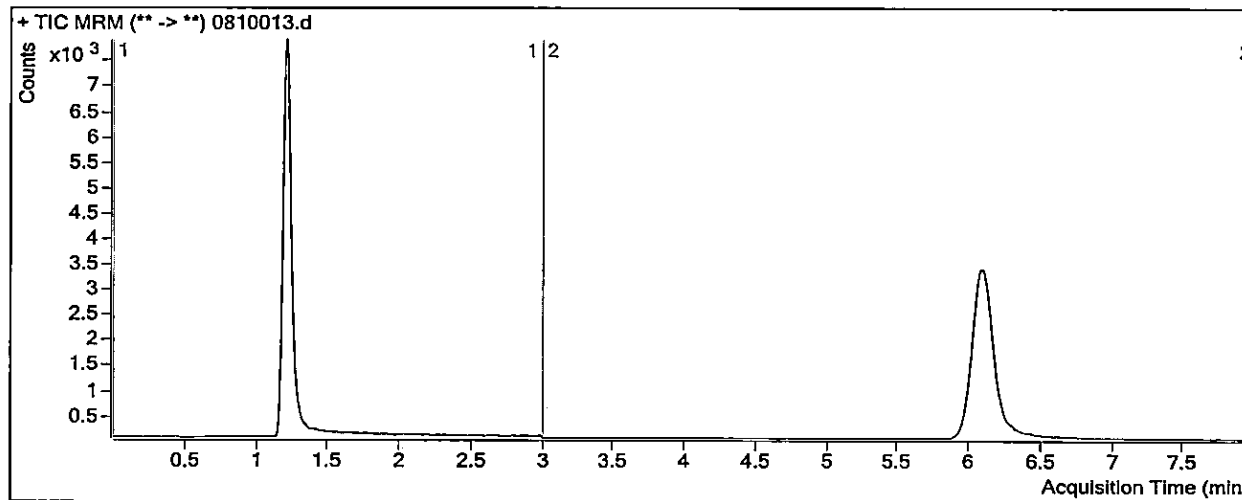
Quantitative Analysis Sample Report**Compound Graphics****Target Compound** MIT**Target Compound** CMIT

Quantitative Analysis Sample Report

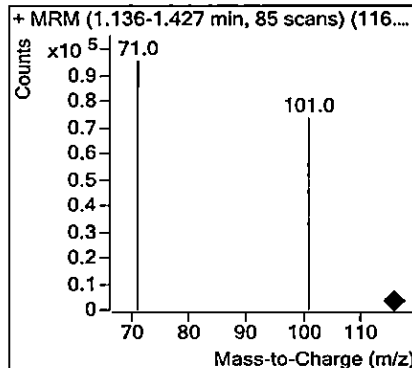
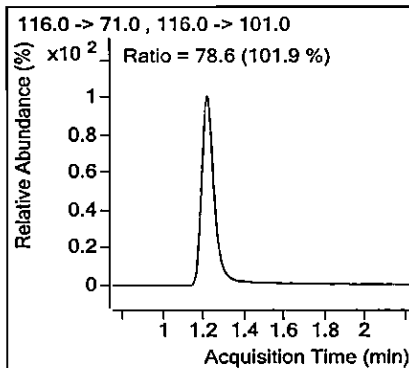
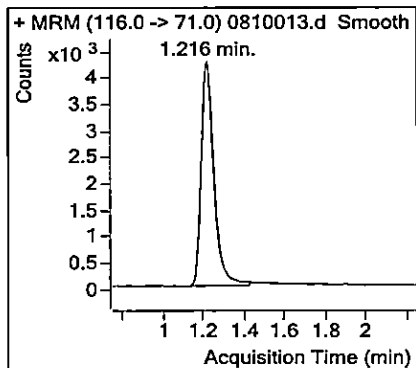
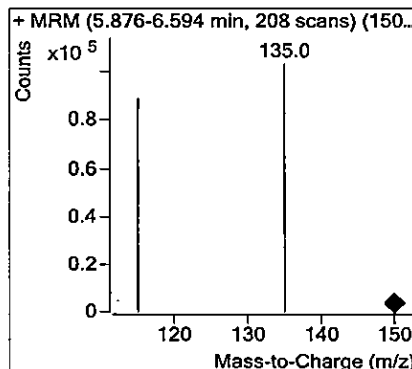
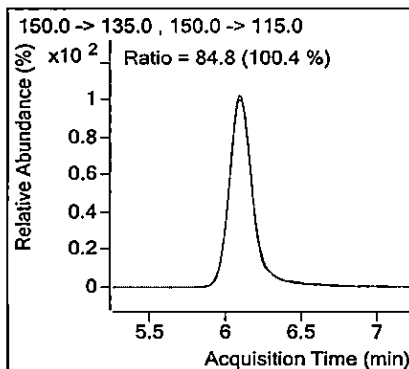
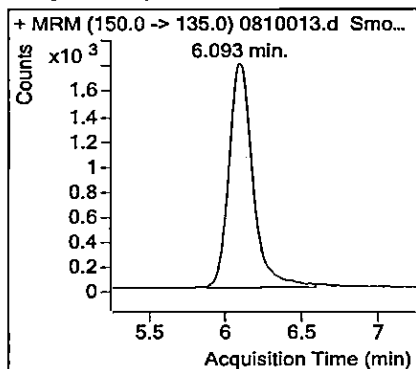
Batch Data Path D:\MassHunter\Data\0821\0810biocides\QuantResults\0810biocides.batch.bin
Analysis Time 8/11/2021 9:50 AM **Analyst Name** BCAMERICAS\msheltonlab
Report Time 8/11/2021 9:52 AM **Reporter Name** BCAMERICAS\msheltonlab
Last Calib Update 8/11/2021 9:50 AM **Batch State** Processed

Analysis Info

Acq Time 2021-08-10 20:00 **Data File** 0810013.d
Position Vial 5 **Sample Name** 30 ppb MIT/CMIT
Dilution 1 **Sample Info**
Inj Vol -1 **Acq Method File** Biocides.m
Sample Type CC **Comment** 2357-0810-071-1 exp 08-17-2021

Sample Chromatogram**Quantitation Results**

Compound	ISTD	RT	Response	ISTD Resp	RR	Conc	Units
MIT		1.216	18537			8.0918	ng/ml
CMIT		6.093	19694			24.8648	ng/ml

Quantitative Analysis Sample Report**Compound Graphics****Target Compound** MIT**Target Compound** CMIT

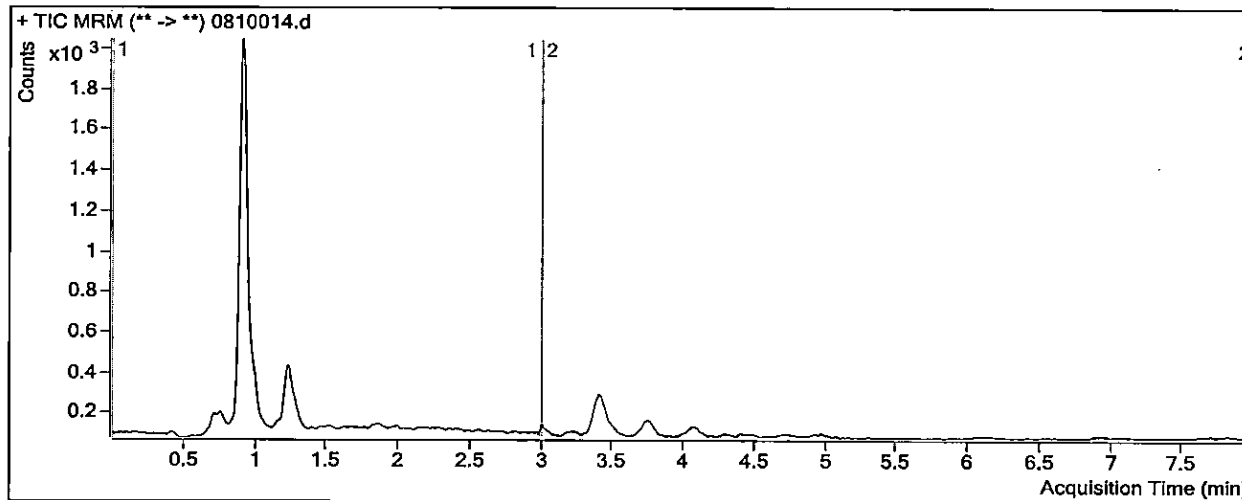
Quantitative Analysis Sample Report

Batch Data Path	D:\MassHunter\Data\0821\0810biocides\QuantResults\0810biocides.batch.bin		
Analysis Time	8/11/2021 9:50 AM	Analyst Name	BCAMERICAS\msheltonlab
Report Time	8/11/2021 9:52 AM	Reporter Name	BCAMERICAS\msheltonlab
Last Calib Update	8/11/2021 9:50 AM	Batch State	Processed

Analysis Info

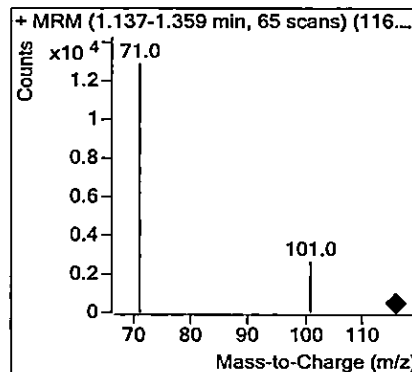
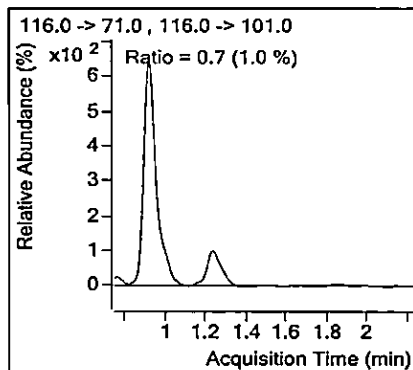
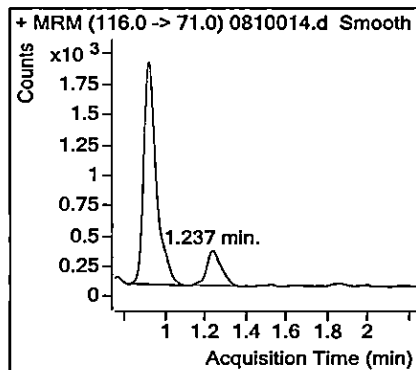
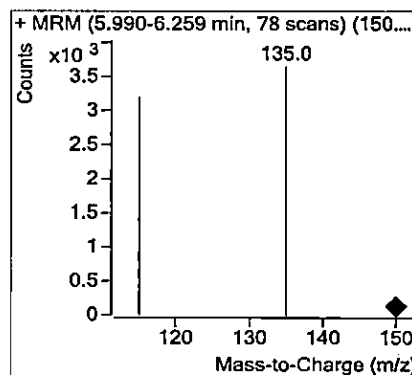
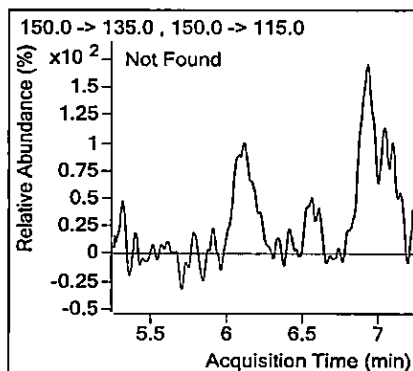
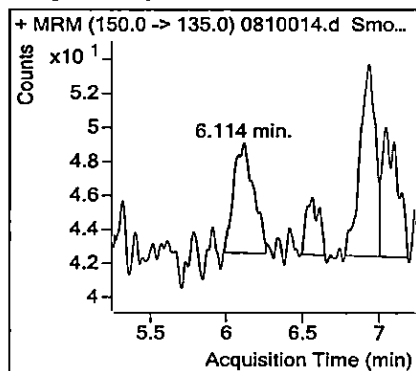
Acq Time	2021-08-10 20:18	Data File	0810014.d
Position	Vial 11	Sample Name	000279833OPP
Dilution	1	Sample Info	
Inj Vol	-1	Acq Method File	Biocides.m
Sample Type	Sample	Comment	249067 Spectrum undiluted

Sample Chromatogram



Quantitation Results

Compound	ISTD	RT	Response	ISTD Resp	RR	Conc	Units
MIT		1.237	1439			0.6705	ng/ml
CMIT		6.114	60			0.2713	ng/ml

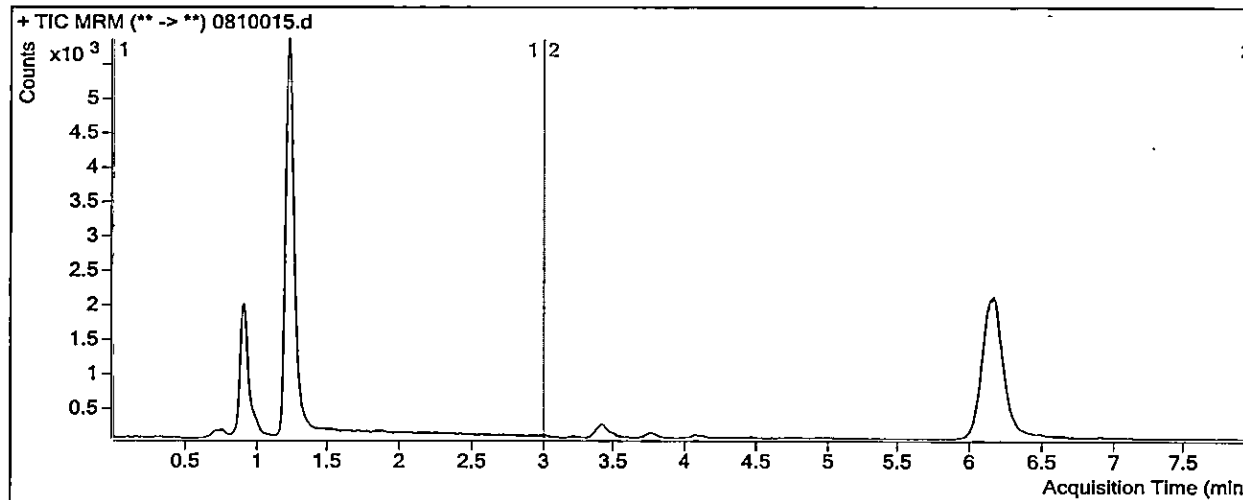
Quantitative Analysis Sample Report**Compound Graphics****Target Compound** MIT**Target Compound** CMIT

Quantitative Analysis Sample Report

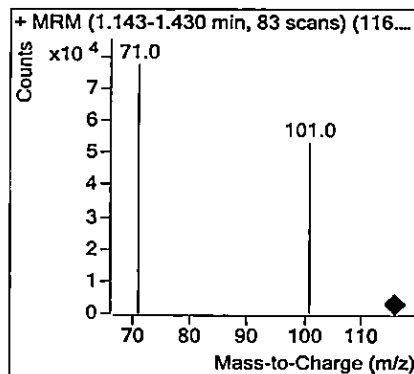
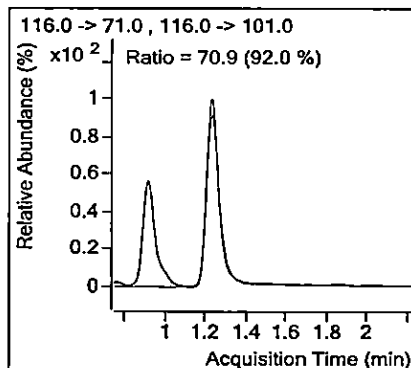
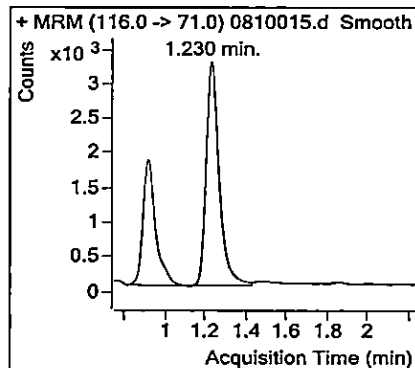
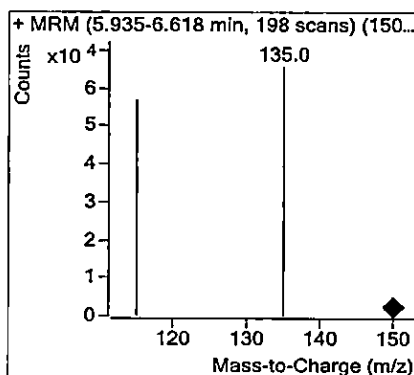
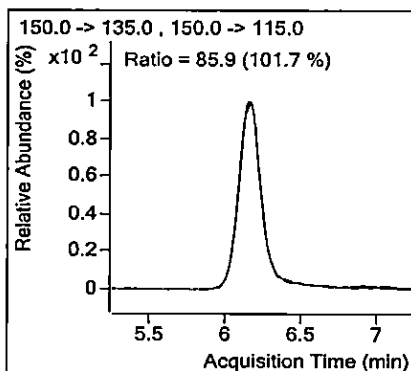
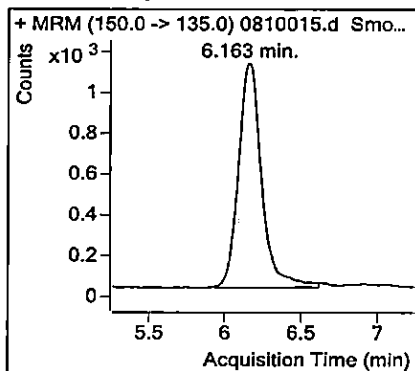
Batch Data Path D:\MassHunter\Data\0821\0810biocides\QuantResults\0810biocides.batch.bin
Analysis Time 8/11/2021 9:50 AM **Analyst Name** BCAMERICAS\msheltonlab
Report Time 8/11/2021 9:52 AM **Reporter Name** BCAMERICAS\msheltonlab
Last Calib Update 8/11/2021 9:50 AM **Batch State** Processed

Analysis Info

Acq Time 2021-08-10 20:35 **Data File** 0810015.d
Position Vial 12 **Sample Name** 000279833OPP MS
Dilution 1 **Sample Info**
Inj Vol -1 **Acq Method File** Biocides.m
Sample Type Sample **Comment** 249067 Spectrum undiluted

Sample Chromatogram**Quantitation Results**

Compound	ISTD	RT	Response	ISTD Resp	RR	Conc	Units
MIT		1.230	14578			6.3734	ng/ml
CMIT		6.163	11792			14.9668	ng/ml

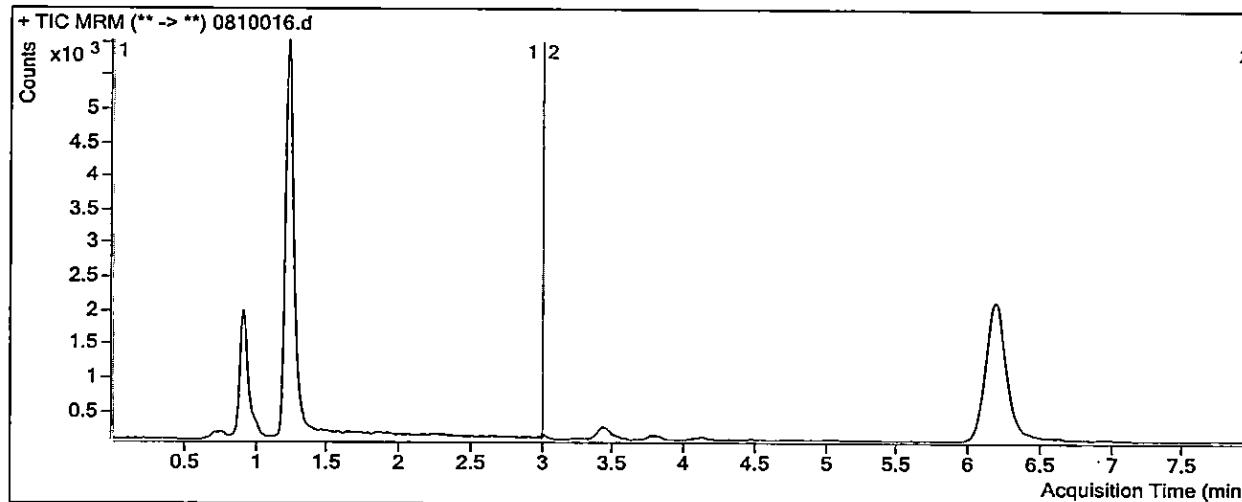
Quantitative Analysis Sample Report**Compound Graphics****Target Compound** MIT**Target Compound** CMIT

Quantitative Analysis Sample Report

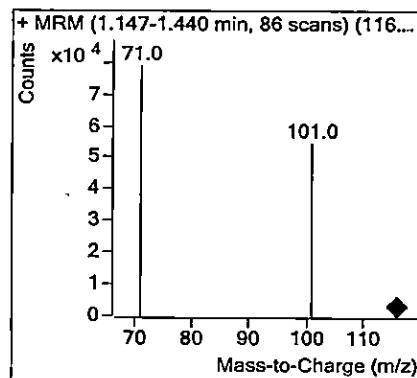
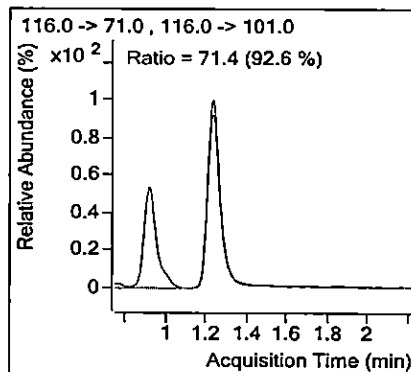
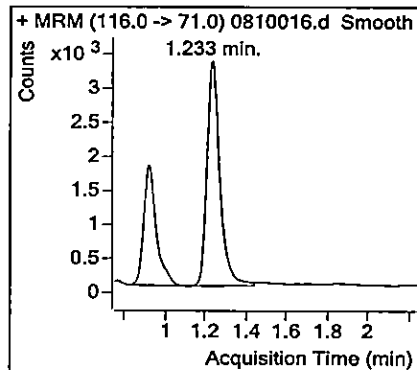
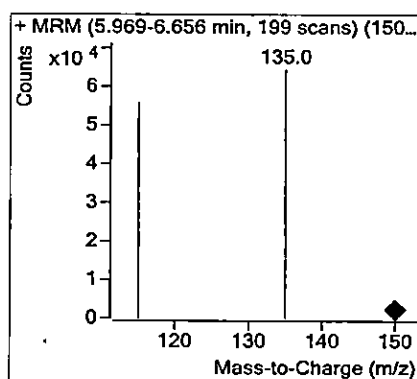
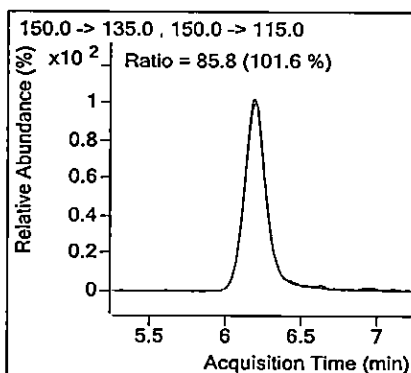
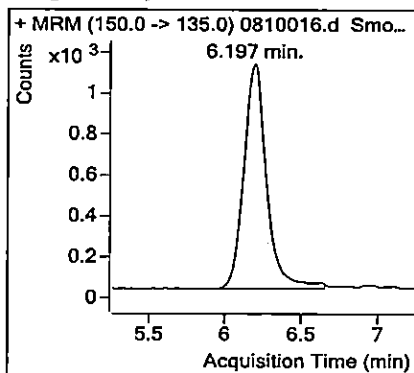
Batch Data Path D:\MassHunter\Data\0821\0810biocides\QuantResults\0810biocides.batch.bin
Analysis Time 8/11/2021 9:50 AM **Analyst Name** BCAMERICAS\msheltonlab
Report Time 8/11/2021 9:52 AM **Reporter Name** BCAMERICAS\msheltonlab
Last Calib Update 8/11/2021 9:50 AM **Batch State** Processed

Analysis Info

Acq Time 2021-08-10 20:52 **Data File** 0810016.d
Position Vial 13 **Sample Name** 000279833OPP MSD
Dilution 1 **Sample Info**
Inj Vol -1 **Acq Method File** Biocides.m
Sample Type Sample **Comment** 249067 Spectrum undiluted

Sample Chromatogram**Quantitation Results**

Compound	ISTD	RT	Response	ISTD Resp	RR	Conc	Units
MIT		1.233	14774			6.4582	ng/ml
CMIT		6.197	11580			14.7007	ng/ml

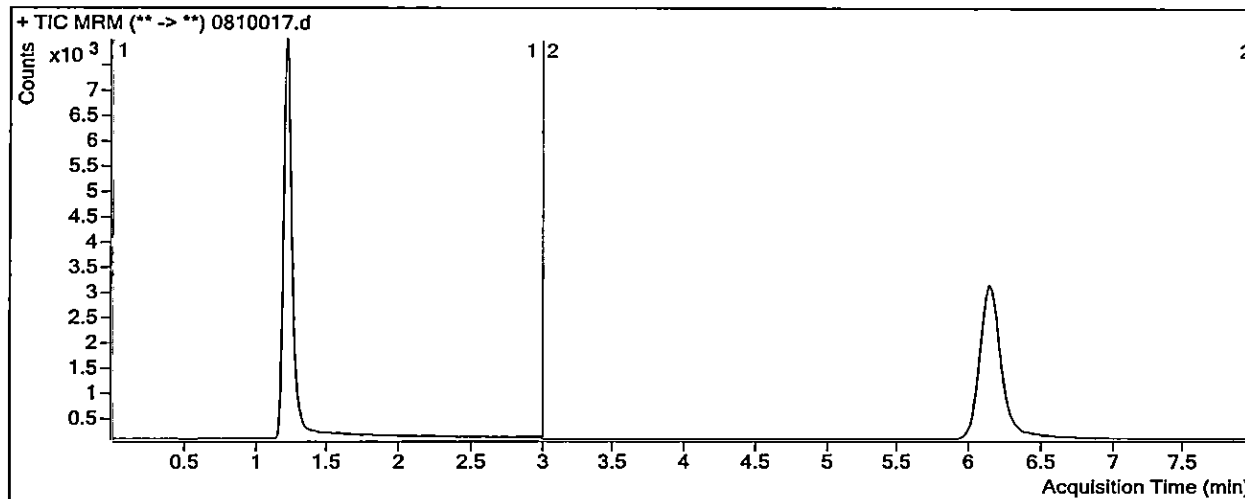
Quantitative Analysis Sample Report**Compound Graphics****Target Compound** MIT**Target Compound** CMIT

Quantitative Analysis Sample Report

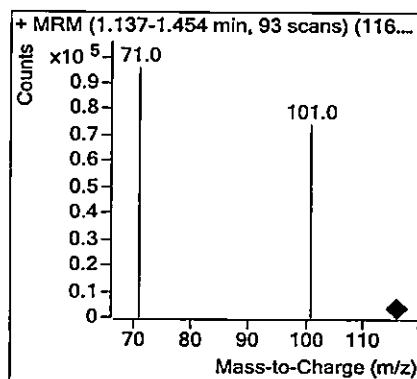
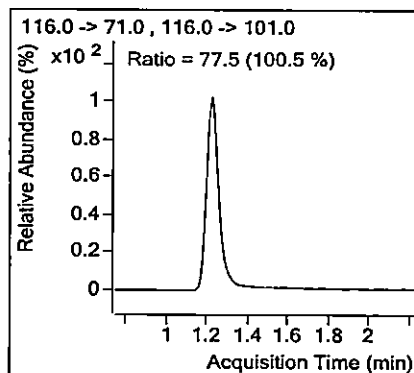
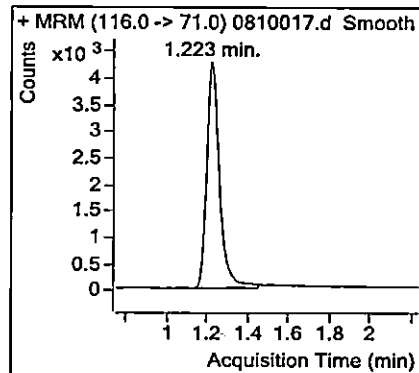
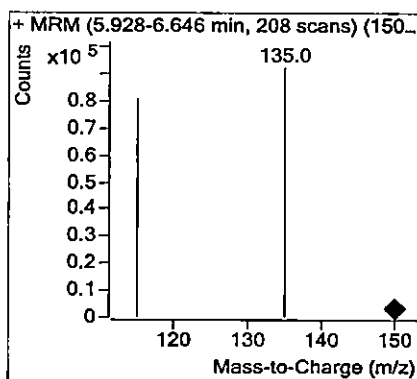
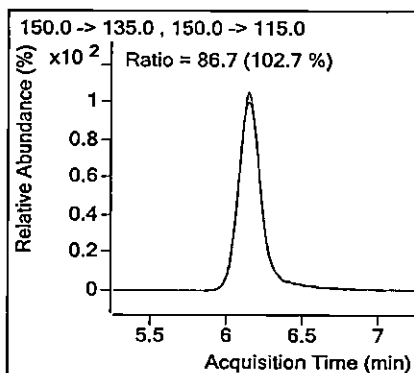
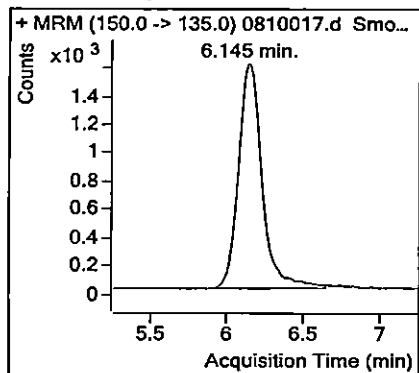
Batch Data Path D:\MassHunter\Data\0821\0810biocides\QuantResults\0810biocides.batch.bin
Analysis Time 8/11/2021 9:50 AM **Analyst Name** BCAMERICAS\msheltonlab
Report Time 8/11/2021 9:52 AM **Reporter Name** BCAMERICAS\msheltonlab
Last Calib Update 8/11/2021 9:50 AM **Batch State** Processed

Analysis Info

Acq Time 2021-08-10 21:10 **Data File** 0810017.d
Position Vial 5 **Sample Name** 30 ppb MIT/CMIT
Dilution 1 **Sample Info**
Inj Vol -1 **Acq Method File** Biocides.m
Sample Type CC **Comment** 2357-0810-071-1 exp 08-17-2021

Sample Chromatogram**Quantitation Results**

Compound	ISTD	RT	Response	ISTD Resp	RR	Conc	Units
MIT		1.223	18658			8.1440	ng/ml
CMIT		6.145	17285			21.8471	ng/ml

Quantitative Analysis Sample Report**Compound Graphics****Target Compound** MIT**Target Compound** CMIT



ANALYTICAL REQUEST FORM

9240 Santa Fe Springs Road, Santa Fe Springs, CA 90670
562.948.2225 Fax 562.948.5850
www.element.com

ISO/IEC

17025

Cert: 3248.01



Send Report To

Contact: _____

Company: _____

Address: _____

Email: _____

Phone: _____ Fax: _____

Send Invoice To

AP Contact: _____

Address: _____

Quote# _____

Project: _____

Purchase Order: _____

Phone: _____ Fax: _____

Turnaround Time (business days):

Date Data Due: _____

☐ Normal 10 days (routine analyses)☐ Rush 5 days☐ Rush 3 days☐ Rush 1 dayRush fees
will apply

Regulatory Requirements

- ☐ ISO 17025 Traceability Required
☐ R&D or Internal (not submitted to FDA)
☐ Regulatory Submission to FDA*
☐ Product/Raw Material Regulated by the FDA
☐ Other _____

Storage

- ☐ Protected from light
☐ Room Temp
☐ 2 to 8°C
☐ -15 to -25°C
☐ -70 to -90°C

Reporting Options

- ☐ Report Only
☐ + Spectra/Chromatograms
☐ + QA Data Pkg (extra fee)
☐ Send by Mail
☐ Send by Email

☐ DEA Controlled Substance/Chem: Schedule - _____

Comments and Precautions (SDS Must be included with all samples)

07-27-2021 CAP: @ Ales has 23977-3

UPC# 091037 445995

To ensure compliance with cGMP requirements, non-compendial test methods must be transferred and/or validated. Method transfer and/or validation services are available on request and are the responsibility of the client. Where method transfer and/or validation have not occurred reports will indicate "method not validated for this matrix at this facility."

Sample Identification for Report

Matrix/Product

Analysis(es), Specifications*, and/or Method & Revision

*Specifications are required for all FDA cGMP work.

☐ Refer attached (check this box if sample information will be provided in a separate attachment)

000 279 8330PP

AH Analysis

Samples will be disposed of 30 days after invoicing, except for regulated substances samples, which will be returned at the client's expense.

All documents and raw data will be disposed of after 7 years. By completing this form, or submitting samples for analysis, or by authorizing to perform the services, including but not limited to the issuance of a purchase order, shall indicate acceptance of the Element Materials Technology Pharma US LLC Terms Conditions of service and terms of the quote. Any other terms and conditions, including those identified in Client's purchase order are expressly rejected, unless otherwise agreed to in writing by an authorized representative of Element. In the event that the parties have executed a services agreement, the terms of such executed agreement shall govern.

Testing Authorized by:

Company:

Date:

For Internal Use Only:

Received by: UPS (E) 07-27-2021

Date:

Time:

Delivered by:

Element
UPS

07-27-2021

3:20 PM

Element Job Number: **249067**



9240 Santa Fe Springs Road
Santa Fe Springs, CA
90670 USA

P: 1 562 948 2225
F: 1 562 948 5850
info.santafesprings@element.com
element.com

Laboratory Report

September 7, 2021

Spectrum Laboratories LLC
400 S 4th St Ste 500
Las Vegas, NV 89101-6207

Attn: Jeffrey "Jeff" Hale

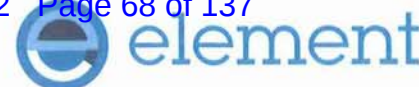
Element Job No: 249635
Purchase Order: PAID - CREDIT CARD
Project Name: X-Stream Synthetic Urine
Samples Received: 1
Date Received: 08-23-2021

Analysis	Page
Density by SOP 8060, Rev 6	2
pH by SOP 8170, Rev 9	2
Water Content by SOP 8100, Rev 14	2
Selected Anions by SOP 4020, Rev 12	3 - 4
QA Data Package	Enclosed

Copy of Report Sent to;
McDonald Hopkins LLC
600 Superior Ave E Ste 2100
Cleveland OH 44114-2690
Attn: Matthew J Cavanagh


Michael Shelton
Technical Director


Robert Stead
Senior Chemist



Spectrum Laboratories LLC
Job No: 249635

Reference: SOP 8060, Rev 6
Sample ID: 000279833OPP

<u>Analysis</u>	<u>Result</u>
Density	1.010 g/cm ³ at 25°C

Date Analyzed: 09-03-21

Reference: SOP 8170, Rev 9
Sample ID: 000279833OPP

<u>Analysis</u>	<u>Result</u>
pH	9.09

The work described above was conducted in compliance with the principles of current Good Manufacturing Practice. The results reported accurately reflect the raw data. The following exception was noted: the results have been generated using method(s) that have not been validated at this facility.

Date Analyzed: 09-01-21

Water Content by SOP 8100, Rev 14
Volumetric Karl Fischer Titration

Percent

<u>Sample ID</u>	<u>Result</u>
000279833OPP	97.71
000279833OPP Duplicate	97.47

Date Analyzed: 09-03-21

Quality Control Summary

Sample ID: Sodium Tartrate Dihydrate

	Sample	Certified	Absolute	Absolute
<u>Analysis</u>	<u>Result</u>	<u>Value</u>	<u>% Error</u>	<u>% Error</u>
				<u>Limit</u>
Water Content	15.64	15.73	0.6	NMT 1



Spectrum Laboratories LLC
Job No: 249635

Selected Anions by SOP 4020, Rev 12
Ion Chromatography-Suppressed Conductivity

Sample preparation: The sample was diluted with water by volume in duplicate at a 1:20 dilution factor. The large chloride peak in the sample interfered with analysis of fluoride and bromide at this dilution factor. The sample and duplicate were then diluted to a dilution factor of 1:400. The detection limits for fluoride, chloride and bromide were adjusted for the 1:400 dilution while the detection limits of the other ions were calculated for the 1:20 dilution. Further dilution with water was necessary to bring the results for chloride into the range of the calibration.

Column: Dionex AS14 250 mm x 4 mm, AG14 Guard 50 mm x 4 mm
Eluent: 3.5 mM Sodium Carbonate, 1.0 mM Sodium Bicarbonate
Flow: 1.2 mL/min
Injection: 300 µL
Detection: Suppressed Conductivity

Parts Per Million (µg/mL)

<u>Sample ID</u>	<u>Fluoride</u>	<u>Chloride</u>	<u>Bromide</u>	<u>Nitrate</u>	<u>Phosphate</u>	<u>Sulfate</u>
000279833OPP	ND	6030	ND	ND	12.7	36.4
000279833OPP Duplicate	ND	6140	ND	ND	13.1	36.8
Method Blank	ND	ND	ND	ND	ND	ND
Detection Limit	8	8	8	0.4	0.4	0.4

The work described above was conducted in compliance with the principles of current Good Manufacturing Practice. The results reported accurately reflect the raw data. The following exception was noted: the results have been generated using method(s) that have not been validated at this facility.

Date Analyzed: 09-01-21



Spectrum Laboratories LLC
Job No: 249635

Quality Control Summary

Parts Per Million (µg/mL)

Sample ID: 000279833OPP

<u>Analyte</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>RPD</u>	<u>Spike Conc</u>	<u>Spike Result</u>	<u>Spike % Rec*</u>
Nitrate	ND	ND	NA	20.2	16.4	81
Phosphate	12.7	13.1	3	20.2	32.5	98
Sulfate	36.4	36.8	1	20.2	56.3	99

Sample ID: 000279833OPP

<u>Analyte</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>RPD</u>	<u>Spike Conc</u>	<u>Spike Result</u>	<u>Spike % Rec*</u>
Fluoride	ND	ND	NA	500	502	100
Chloride	6030	6140	2	6400	13000	108
Bromide	ND	ND	NA	500	502	100
Nitrate	ND	ND	NA	500	491	98
Phosphate	12.7	13.1	3	500	518	101
Sulfate	36.4	36.8	1	500	512	95

* Based on the results of the first sample (sample spiked).

Quality Control Guidelines

<u>Analyte</u>	<u>% Recovery Limits</u>	<u>RPD Limit</u>
Fluoride	63-133	17
Chloride	63-121	10
Bromide	77-114	11
Nitrate	67-126	15
Phosphate	66-122	35
Sulfate	68-120	9

Limits are for spikes of aqueous samples.



9240 Santa Fe Springs Road
Santa Fe Springs, CA
90670 USA

P: 1 562 948 2225
F: 1 562 948 5850
info.santafesprings@element.com
element.com

QA DATA PACKAGE

Job Number: 249635

Table of Contents

	<u>Page</u>
I. General Chemistry Tests	
pH by SOP 8170, Rev 9	2 – 21
Density by SOP 8060, Rev 6	
Water Content by SOP 8100, Rev 14	
II. Ion Chromatography	
Selected Anions by SOP 4020, Rev 12	22 – 65



SOP 2160

QA DATA AUDIT FORM

Job Number(s): 249635

Product: X-stream Synthetic Urine

Analysis: OT ^{EXP 07 SEP 21} VARIOUS-WET Method: SOP 8170, REV 9 ^{SOP 8100 REV 14} VARIOUS Instrument: VARIOUS

Date Prepared: 01 SEP 21 Date Analyzed: 01 SEP 21 - 03 SEP 21

The analytical records package has been reviewed and the following parameters have been verified:

Yes N/A

- ☒ The technical review has been completed and is evidenced in the completion of the technical review form and signature of the analyst and the reviewer
- ☐ ☒ NCRs or deviations raised and relating to this analysis have been satisfactorily closed
- ☐ ☒ OOT or OOS investigation in progress
- ☐ ☒ OOT or OOS investigations relating to this analysis have been satisfactorily closed
- ☒ ☐ The final analytical results and conclusions are reported accurately and in line with the customer's or product specification
- ☐ ☒ The OOT or OOS investigation report number is included in the final analytical report
- ☒ ☐ Other comments relating to the sample(s) or the analyses (as applicable) are included in the final analytical report
- ☐ ☒ Electronic data / audit trails reviewed acceptable

☒ N/A Deviation(s) from SOP or Method, OOT or OOS (please attached):
☐ NCR N _____ ☐ OOS _____ ☐ OOT _____

I certify that the data contained in this package has been reported in line with the product specification. This data has been acquired under Element Standard Operating Procedures and in compliance with cGMP/cGLP. Any deviations, OOT, OOS or NCRs have been investigated, documented and either corrected or justified and have been satisfactorily closed.

QA Signature: Denise Ugazendi Date: 07 SEP 21



SOP 2160

Job Number(s): 249035 Product: X-stream synthetic urine
 Date Analyzed: 09/01/2021 - 09/03/2021 Analyst: ML, DN
 Analysis: Various

COMMON ABBREVIATIONS:

NR	NOT REPORTED	ND	NOT DETECTED
SRM	STANDARD REFERENCE MATERIAL	LT	LESS THAN
NMT	NOT MORE THAN	NLT	NOT LESS THAN

This Wet Chemistry data package contains the following (note any omissions or problems):

1. List of samples analyzed: ☒ Attached
2. Reagents within expiry: ☐ N/A ☒ Satisfactory ☐ See NCR
3. Equipment Qualification: ☐ N/A ☒ Satisfactory ☐ Deviation noted and justified
4. Positive Control/SRM: ☐ N/A ☒ Satisfactory ☐ Previously performed for this matrix
5. Negative Control/Blank: ☒ N/A ☐ Satisfactory ☐ Deviation noted and justified
6. Standard Verification: ☒ N/A ☐ Satisfactory ☐ Deviation noted and justified
7. Precision/Duplicates: ☐ N/A ☒ Satisfactory ☐ Deviation noted and justified
8. Accuracy/Linearity (STD Curve): ☐ N/A ☒ Satisfactory ☐ Deviation noted and justified
9. Other QC Parameter(s): ☒ N/A _____

Deviation(s) from SOP or Method, OOT or OOS: ☒ None ☐ NCR N _____ ☐ OOS/OOT _____

I certify that this data has been acquired under Element Standard Operating Procedures and that any non-conformances have been properly documented and justified.

Analyst Signature: [Signature] Date: 09/01/21 09/03/21

I certify that this data has been reviewed, calculations verified, and non-conformances satisfactorily handled.

Electronic data / audit trails reviewed ☐ Yes ☐ No ☒ N/A

Reviewer Signature: [Signature] Date: 09/07/21

Density by SOP 8060, Rev 6

LS: 132758

DN 09/03/21

Job No. : **249635**

Date : 2021-09-03

H2O Temp. (°C) = 25

Absolute Density of H2O @ Specific Temp. (g/mL)* = 0.997048

Weight of Pycnometer + H2O (g) = 39.21898

Weight of Empty Pycnometer (g) (B) = 28.71359

Volume of Pycnometer (mL) = 10.5054

Corrected Volume of Pycnometer (mL) (C) = 10.5365

$$\text{Density (g/mL)} = \frac{A - B}{C}$$

Where: A = Sample Weight + Pycnometer (g)

B = Weight of Empty Pycnometer (g)

C = Corrected Volume of Pycnometer (mL)

<u>Sample ID</u>	<u>Temp (°C)</u>	<u>Sample Weight + Pycnometer (g) (A)</u>	<u>Density (g/mL)</u>
000279833OPP	25	39.3510	1.010 Pass

09/07/2021 AME

* CRC Handbook of Chemistry and Physics 83rd Edition pg. 6-5

CALCULATIONS.123 Version 1.51 (Validated and Protected)



Wet Chemistry Record of Sample Preparation and Analysis
 WETCHEM.123 Version 1.46 (Validated and Protected)
 Analysis : Density by SOP 8060, Rev 6

Printed By: DN
 Date Printed: 2021-09-03
 Sheet #: 132758

Job Number **Client**
249635 Spectrum Laboratories LLC

Balance ID #: B-49
 Thermometer ID #: 466

DN 09/03/21
 09/03/2021 132758 16:08
[1] 28.71359 g

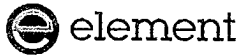
Sample ID	Weight (g)	Temperature (°C)
Empty Pycnometer	<u>[1]</u>	<u>25.0</u>
Pycnometer + Nanopure Water	<u>[2]</u>	<u>25.0</u>
000279833OPP	<u>[3]</u>	<u>25.0</u>

DN 09/03/21
 09/03/2021 132758 16:18
[2] 39.21898 g

DN 09/03/21
 09/03/2021 132758 16:26
[3] 39.35099 g

N/A DN 09/03/21

Performed By/Date: DN 09/03/21 Reviewed By/Date: 09/07/2021 Ame
 I certify that the above procedure was followed with no deviations.



Wet Chemistry Record of Sample Preparation and Analysis
 WETCHEM.123 Version 1.46 (Validated and Protected)
 Analysis : Water Content by SOP 8100, Rev 14

Printed By: DN
 Date Printed: 2021-09-03
 Sheet #: 132757

Job Number Client
 249635 Spectrum Laboratories LLC

Balance ID #: B-3 B-49
 Instrument ID #: KF #5

Sample ID
 [1] 000279833OPP
 [2] 000279833OPP Dup

Result
97.762%
97.4675%

DN 09/03/21
 09/03/2021 132757 15:55
 N [1] -0.12569 g

DN 09/03/21
 09/03/2021 132757 16:10
 N [2] -0.12402 g

$$RPD = \frac{47.7122 - 97.4675}{\left(\frac{97.7122 + 97.4675}{2}\right)} \times 100 = 0.31$$

N/A DN 09/03/21

Calibration printouts in logbook #: 2221 pg: 58

Reagents:

Comp 5: GFS 21240172 exp: 06/14/23
 Methanol: Fisher 211773 exp: 05/31/26

Performed By/Date: DN 09/03/21 Reviewed By/Date: 09/07/2022 AME

I certify that the above procedure was followed with no deviations.

METTLER TOLEDO V20S * Version 5.2.0 * Serial No B818780927 * Titrator ID Compact Titrator

0002798330PP SN: 249635 LS: 132757 ON 09/03/21

Reminder: Preventative service maintenance is suggested.

Method ID	KFVol	Sample series ID	--
Date / Time	09/03/2021 02:48:19 pm	User name	Administrator

Summary

Samples

No.	ID
1	--

Sample size and results

0.12569 g	
R1 (Content)	97.7122 %

All results

Sample 1/1	--
R1 (Content)	97.7122 %

Raw results

Sample 1/1

003 Titration stand (KF stand)

DRIFT

0.0 µg/min

DRIFTV

0 µL/min

004 Mix time

Mix time

300 s

005 Titration (KF Vol) [1]

Termination at

drift stop relative

TIME

13:22 min

t

07:58 min

VEQ1

23.089249 mL

EST

625.5 mV

EEQ1

93.8 mV

CW

122814.484 µg

TEQ

25.0 °C

006 Calculation R1

C

0.1

Sample data

Sample 1/1

Sample type

Sample

Number

1

ID 1

--

Sample size

0.12569 g

Density

1.0 g/mL

Temperature

25.0 °C

Comment

User name

Administrator

Sample Start

09/03/2021 04:06:12 pm

Resource data

Sample 1/1

002 Sample

Concentration standard

Type

KF

Name

Water

Water content

100

09/07/2021 AME

METTLER TOLEDO V205 * Version 5.2.0 * Serial No B818780927 * Titrator ID Compact Titrator

Unit	%
Density	1.0 g/mL
Lot/Batch	
Container ID	
Article number	
Supplier	
Date / Time	11/20/2018 08:23:39 am
Performed by	Administrator
Shelf life	11/20/2018 08:23:39 am
003 Titration stand (KF stand)	
Titration Stand	
Type	KF stand
Name	KF stand
Stirrer output	Internal stirrer
Drift	33.0 µg/min
Determination method	KFVol
Date / Time	09/23/2019 10:25:52 am
Performed by	Administrator
005 Titration (KF Vol) [1]	
Titrant	
Type	Karl Fischer titration
Name	KF 1-comp 5
Reagent type	1-comp
Nominal conc.	5 mg/mL
Current conc.	5.31912 mg/mL
Determination method	KFVol
Date / Time	09/03/2021 02:12:06 pm
Performed by	Administrator
Shelf life	06/28/2018 07:16:05 pm
Lot/Batch	
Fill rate	100 %
Burette volume	5 mL
Drive	1
Serial number	044901811
Sensor	
Type	Polarized
Name	DM143-SC
Unit	mV
Sensor input	SENSOR
Serial number	

(1) Modified	(6) srel above max srel for multiple determination
(2) Excluded	(7) Value out of range, not saved in setup.
(3) Outside limits	(8) Sample data out of range.
(4) Resource expired.	(9) Standard evaluation used.
(5) srel above max srel	

METTLER TOLEDO V20S * Version 5.2.0 * Serial No B818780927 * Titrator ID Compact Titrator

Reminder: Preventative service maintenance is suggested.

Method ID	KFVol	Sample series ID	--
Date / Time	09/03/2021 02:48:19 pm	User name	Administrator

Instruction
PRINT

METTLER TOLEDO V20S * Version 5.2.0 * Serial No B818780927 * Titrator ID Compact Titrator

0002798330PP Dup SN: 249635 LS: 132757

Reminder: Preventative service maintenance is suggested.

Method ID	KFVol	Sample series ID	--
Date / Time	09/03/2021 02:48:19 pm	User name	Administrator

Summary

Samples

No.	ID
2	--

Sample size and results

0.12402 g	
R1 (Content)	97.4675 %

All results

Sample 2/2	--
R1 (Content)	97.4675 %

Raw results

Sample 2/2	
003 Titration stand (KF stand)	
DRIFT	13.3 µg/min
DRIFTV	2.5 µL/min
004 Mix time	
Mix time	300 s
005 Titration (KF Vol) [1]	
Termination at	drift stop relative
TIME	13:08 min
t	07:46 min
VEQ1	22.758247 mL
EST	517.9 mV
EEQ1	92.7 mV
CW	121053.849 µg
TEQ	25.0 °C
006 Calculation R1	
C	0.1

Sample data

Sample 2/2	
Sample type	Sample
Number	2
ID 1	--
Sample size	0.12402 g
Density	1.0 g/mL
Temperature	25.0 °C
Comment	
User name	Administrator
Sample Start	09/03/2021 04:22:04 pm

Resource data

Sample 2/2	
002 Sample	
Concentration standard	
Type	KF
Name	Water
Water content	100

09/07/2022 AME

METTLER TOLEDO V205 * Version 5.2.0 * Serial No B818780927 * Titrator ID Compact Titrator

Unit	%
Density	1.0 g/mL
Lot/Batch	
Container ID	
Article number	
Supplier	
Date / Time	11/20/2018 08:23:39 am
Performed by	Administrator
Shelf life	11/20/2018 08:23:39 am
003 Titration stand (KF stand)	
Titration Stand	
Type	KF stand
Name	KF stand
Stirrer output	Internal stirrer
Drift	33.0 µg/min
Determination method	KFVol
Date / Time	09/23/2019 10:25:52 am
Performed by	Administrator
005 Titration (KF Vol) [1]	
Titrant	
Type	Karl Fischer titration
Name	KF 1-comp 5
Reagent type	1-comp
Nominal conc.	5 mg/mL
Current conc.	5.31912 mg/mL
Determination method	KFVol
Date / Time	09/03/2021 02:12:06 pm
Performed by	Administrator
Shelf life	06/28/2018 07:16:05 pm
Lot/Batch	
Fill rate	100 %
Burette volume	5 mL
Drive	1
Serial number	044901811
Sensor	
Type	Polarized
Name	DM143-SC
Unit	mV
Sensor input	SENSOR
Serial number	

(1) Modified	(6) srel above max srel for multiple determination
(2) Excluded	(7) Value out of range, not saved in setup.
(3) Outside limits	(8) Sample data out of range.
(4) Resource expired.	(9) Standard evaluation used.
(5) srel above max srel	

METTLER TOLEDO V20S * Version 5.2.0 * Serial No B818780927 * Titrator ID Compact Titrator

Reminder: Preventative service maintenance is suggested.

Method ID	KFVol	Sample series ID	--
Date / Time	09/03/2021 02:48:19 pm	User name	Administrator

Instruction
PRINT

Karl Fischer #5
Standardization and Use Log
 Logbook # 2221

Analyst Initials/Date: DN 09/03/21 Reviewer Initials/Date: AME 09/03/2021

Balance: B-49

☐ Comp 5 K

☒ Comp 5

Lot#: GFS 21240172

Exp: 06 / 14 / 23

Open New Bottle of Comp 5 ? ☐ Yes ☒ No ☐ N/A

Open New Bottle of Comp 5 K ? ☐ Yes ☐ No ☒ N/A

Solvent:

☒ Methanol

☐ Pyridine

☐ Medium K

Lot#: Fisher 211773

Exp: 05 / 31 / 26

ICV Standard:

☒ Sodium Tartrate

☐ 10 mg/g by H₂O STD

Lot#: Fluka I170A

Exp: 05 / 24 / 23

Sample	Replicate (1)	Replicate (2)	Replicate (3)	Average	RSD ($\leq 0.5\%$)
Titer: (mg/mL)	5.309419	5.322705	5.325224	5.31912	0.2%
Drift: (≤ 15)	0.0	0.0	<u>DN 09/03/21</u> 0.0 0.0		
	Certified Value (%)	Result (%)	Error ($\leq 1\%$)		
ICV:	15.73%	15.6367%	0.6%		

☒ Pass ☐ Fail (perform maintenance and repeat standardization)

Job Number	Comments/Maintenance		
<u>DN 09/03/21</u> 09/03/2021 18:00:15 58:13:43	<u>DN 09/03/21</u> 09/03/2021 18:22:15 58:13:50	<u>DN 09/03/21</u> 09/03/2021 18:22:15 58:13:56	
N 1 -0.05298 g	N 2 -0.05241 g	N 3 -0.05297 g	
<u>DN 09/03/21</u> 09/03/2021 18:22:15 58:14:25			
N sodium tartrate -0.15584 g			
249635	Synthetic Urine (See job for standardization printouts) (QC Dup)		

METTLER TOLEDO V20S * Version 5.2.0 * Serial No B818780927 * Titrator ID Compact Titrator

KF Standardization Rep #1 LB#2221 pg.58 DN 09/03/21

Reminder: Preventative service maintenance is suggested.

Method ID	KFVol	Sample series ID	--
Date / Time	09/03/2021 01:44:45 pm	User name	Administrator

Concentration determination**Sample data**

Number	1
Standard	Water
Sample size	0.05298 g
Comment	
Sample Start	09/03/2021 01:54:05 pm

Raw results

DRIFT	0.0 µg/min
Mix time	10 s
Termination at	drift stop relative
TIME	04:28 min
VEQ1	9.978493 mL
Current conc.	5.30942 mg/mL

All results

R1 (Concentration)	5.309419 mg/mL
--------------------	----------------

Resource data

Concentration standard	
Name	Water
Water content	100
Unit	%
Density	1.0 g/mL
Titration Stand	
Name	KF stand
Titrant	
Name	KF 1-comp 5
Nominal conc.	5 mg/mL
Sensor	
Name	DM143-SC

(1) Modified	(6) srel above max srel for multiple determination
(2) Excluded	(7) Value out of range, not saved in setup.
(3) Outside limits	(8) Sample data out of range.
(4) Resource expired.	(9) Standard evaluation used.
(5) srel above max srel	

09/07/2021 AME

METTLER TOLEDO V20S * Version 5.2.0 * Serial No B818780927 * Titrator ID Compact Titrator

KF Standardization Rep #2 LB#2221 pg 58 DN 09/03/21

Reminder: Preventative service maintenance is suggested.

Method ID	KFVol	Sample series ID	--
Date / Time	09/03/2021 01:44:45 pm	User name	Administrator

Concentration determination**Sample data**

Number	2
Standard	Water
Sample size	0.05241 g
Comment	
Sample Start	09/03/2021 02:01:10 pm

Raw results

DRIFT	0.0 µg/min
Mix time	10 s
Termination at	drift stop relative
TIME	04:22 min
VEQ1	9.846497 mL
Current conc.	5.31606 mg/mL

All results

R1 (Concentration)	5.322705 mg/mL
--------------------	----------------

Resource data

Concentration standard	
Name	Water
Water content	100
Unit	%
Density	1.0 g/mL
Titration Stand	
Name	KF stand
Titrant	
Name	KF 1-comp 5
Nominal conc.	5 mg/mL
Sensor	
Name	DM143-SC

(1) Modified	(6) srel above max srel for multiple determination
(2) Excluded	(7) Value out of range, not saved in setup.
(3) Outside limits	(8) Sample data out of range.
(4) Resource expired.	(9) Standard evaluation used.
(5) srel above max srel	

09/07/2021 Ame

METTLER TOLEDO V20S * Version 5.2.0 * Serial No B818780927 * Titrator ID Compact Titrator

KF Standardization Rep #3 LB#2201 pg 58 DN 09/03/21

Reminder: Preventative service maintenance is suggested.

Method ID	KFVol	Sample series ID	--
Date / Time	09/03/2021 01:44:45 pm	User name	Administrator

Concentration determination**Sample data**

Number	3
Standard	Water
Sample size	0.05297 g
Comment	
Sample Start	09/03/2021 02:07:45 pm

Raw results

DRIFT	0.0 µg/min
Mix time	10 s
Termination at	drift stop relative
TIME	04:22 min
VEQ1	9.946999 mL
Current conc.	5.31912 mg/mL

All results

R1 (Concentration)	5.325224 mg/mL
--------------------	----------------

Resource data

Concentration standard	
Name	Water
Water content	100
Unit	%
Density	1.0 g/mL
Titration Stand	
Name	KF stand
Titrant	
Name	KF 1-comp 5
Nominal conc.	5 mg/mL
Sensor	
Name	DM143-SC

(1) Modified	(6) srel above max srel for multiple determination
(2) Excluded	(7) Value out of range, not saved in setup.
(3) Outside limits	(8) Sample data out of range.
(4) Resource expired.	(9) Standard evaluation used.
(5) srel above max srel	

09/07/2021 AME

METTLER TOLEDO V20S * Version 5.2.0 * Serial No B818780927 * Titrator ID Compact Titrator

Sodium Tartrate Verification LB#2221 pg. 58 DN^{09/03/21}

Reminder: Preventative service maintenance is suggested.

Method ID	KFVol	Sample series ID	--
Date / Time	09/03/2021 01:44:45 pm	User name	Administrator

Summary**Samples**

No.	ID
1	--

Sample size and results

0.15584 g	
R1 (Content)	15.6367 %

All results

Sample 1/1	--
R1 (Content)	15.6367 %

Raw results

Sample 1/1	
003 Titration stand (KF stand)	
DRIFT	0.0 µg/min
DRIFTV	0 µL/min
004 Mix time	
Mix time	300 s
005 Titration (KF Vol) [1]	
Termination at	drift stop relative
TIME	07:46 min
t	02:16 min
VEQ1	4.581245 mL
EST	502.5 mV
EEQ1	92.4 mV
CW	24368.194 µg
TEQ	25.0 °C
006 Calculation R1	
C	0.1

Sample data

Sample 1/1	
Sample type	Sample
Number	1
ID 1	--
Sample size	0.15584 g
Density	1.0 g/mL
Temperature	25.0 °C
Comment	
User name	Administrator
Sample Start	09/03/2021 02:37:15 pm

Resource data

Sample 1/1	
002 Sample	
Concentration standard	
Type	KF
Name	Water
Water content	100

09/07/2022 Amg

METTLER TOLEDO V20S * Version 5.2.0 * Serial No B818780927 * Titrator ID Compact Titrator

Unit	%
Density	1.0 g/mL
Lot/Batch	
Container ID	
Article number	
Supplier	
Date / Time	11/20/2018 08:23:39 am
Performed by	Administrator
Shelf life	11/20/2018 08:23:39 am
003 Titration stand (KF stand)	
Titration Stand	
Type	KF stand
Name	KF stand
Stirrer output	Internal stirrer
Drift	33.0 µg/min
Determination method	KFVol
Date / Time	09/23/2019 10:25:52 am
Performed by	Administrator
005 Titration (KF Vol) [1]	
Titrant	
Type	Karl Fischer titration
Name	KF 1-comp 5
Reagent type	1-comp
Nominal conc.	5 mg/mL
Current conc.	5.31912 mg/mL
Determination method	KFVol
Date / Time	09/03/2021 02:12:06 pm
Performed by	Administrator
Shelf life	06/28/2018 07:16:05 pm
Lot/Batch	
Fill rate	100 %
Burette volume	5 mL
Drive	1
Serial number	044901811
Sensor	
Type	Polarized
Name	DM143-SC
Unit	mV
Sensor input	SENSOR
Serial number	

(1) Modified	(6) srel above max srel for multiple determination
(2) Excluded	(7) Value out of range, not saved in setup.
(3) Outside limits	(8) Sample data out of range.
(4) Resource expired.	(9) Standard evaluation used.
(5) srel above max srel	

METTLER TOLEDO V20S * Version 5.2.0 * Serial No B818780927 * Titrator ID Compact Titrator

Reminder: Preventative service maintenance is suggested.

Method ID	KFVol	Sample series ID	--
Date / Time	09/03/2021 01:44:45 pm	User name	Administrator

Instruction
PRINT



Wet Chemistry Record of Sample Preparation and Analysis
WETCHEM.123 Version 1.46 (Validated and Protected)
Analysis : pH by SOP 8170, Rev 9

Printed By: ML
Date Printed: 2021-09-01
Sheet #: 132658

Job Number Client

249635 Spectrum Laboratories LLC

Pipet ID #: PWET-12
Thermometer ID #: 475
pH Meter #: 7
Electrode ID #: ZWI-10148

Sample ID
000279833OPP

Initial Temp (°C)	Volume	pH Reading	Result
<u>B</u>	<u>30 mL</u>	<u>A</u>	<u>PASS</u>

LCS- PHBLUE-10 : Inorganic ventures lot: S2-WCS700954 exp : 09-05-21

pH Result : C @ D °C

LCS Acceptance Criteria : 9.937 ± 0.031 pH

LS #132658

Thermo Scientific (c) 2011

A214 pH/ISE

Meter S/N X37579

SW Rev 3.04

User ID ABCDE

09/01/21 08:54:57

SampleID 5969 000279833OPP

pH [A] 9.09 pH

mV -131.9 mV

Temperature [B] 25.0 °C

Slope 98.9 %

Method# M100

Calibration #1

Operator ML

Signature [Signature]

ML 09/01/21

LS #132658

Thermo Scientific (c) 2011

A214 pH/ISE

Meter S/N X37579

SW Rev 3.04

User ID ABCDE

09/01/21 09:18:19

SampleID 5970 LCS

pH [C] 9.93 pH

mV -180.6 mV

Temperature [D] 24.3 °C

Slope 98.9 %

Method# M100

Calibration #1

Operator ML

Signature [Signature]

ML 09/01/21

Calibration printouts in logbook # : 2354 pg : 125

Performed By/Date: ML 09/01/2021 Reviewed By/Date: ML 09/01/21

I certify that the above procedure was followed with no deviations.

WET - pH Meter #7 Calibration Logbook Logbook # 2354

Thermo Scientific (c) 2011
A214 pH/ISE
Meter S/N X37579
SW Rev 3.04
--Calibration Report--

PH
09/01/21 07:11:00
Point 1
pH 4.01 pH
mV 165.2 mV
Temperature 25.0 C

Point 2
pH 7.00 pH
mV -8.3 mV
Temperature 25.0 C

Point 3
pH 10.01 pH
mV -185.9 mV
Temperature 25.0 C
Slope1 98.7 %
Slope2 98.7 %
E1 -8.9 mV
E2 -8.3 mV

Average Slope 98.9 %
Calibration #1

Operator SM
Signature *[Signature]*

Thermo Scientific (c) 2011
A214 pH/ISE
Meter S/N X37579
SW Rev 3.04
User ID ABCDE
09/01/21 07:12:07
SampleID 5964

PH 10.02 pH
mV -186.8 mV
Temperature 25.0 C
Slope 98.9 %
Method# M100
Calibration #1

Operator SM
Signature *[Signature]*

Thermo Scientific (c) 2011
A214 pH/ISE
Meter S/N X37579
SW Rev 3.04
User ID ABCDE
09/01/21 07:13:18
SampleID 5965

PH 7.00 pH
mV -8.1 mV
Temperature 25.0 C
Slope 98.9 %
Method# M100
Calibration #1

Operator SM
Signature *[Signature]*

Thermo Scientific (c) 2011
A214 pH/ISE
Meter S/N X37579
SW Rev 3.04
User ID ABCDE
09/01/21 07:15:23
SampleID 5966

PH 4.00 pH
mV 165.8 mV
Temperature 25.0 C
Slope 98.9 %
Method# M100
Calibration #1

Operator SM
Signature *[Signature]*

Thermo Scientific (c) 2011
A214 pH/ISE
Meter S/N X37579
SW Rev 3.04
User ID ABCDE
09/01/21 07:17:52
SampleID 5967

PH 5.57 pH
mV 74.4 mV
Temperature 25.0 C
Slope 98.9 %
Method# M100
Calibration #1

Operator SM
Signature *[Signature]*

Analyst Initials / Date:
SM 09/01/2021

Electrode ID: ZW1-10148

NIST TRACEABLE

pH: 4.01
Orion 742
Exp date: 11/30/2021
Acceptance criteria:
(± 0.02) ☒ Pass ☐ Fail

pH: 7.00
Orion 251
Exp date: 11/30/2021
Acceptance criteria:
(± 0.02) ☒ Pass ☐ Fail

pH: 10.01
Orion 251
Exp date: 09/27/2021
Acceptance criteria:
(± 0.02) ☒ Pass ☐ Fail

Slope: 98.9 %
Acceptance criteria:
95.0-105.0%
☒ Pass ☐ Fail

Final pH must be within ± 0.02 of the labeled buffer solution value. Perform test at 25°C ± 1°.
If calibration fails, clean probe and/or replace buffer solution and repeat the calibration.
If the pH meter fails a second time, place out-of-service and notify QA.

☒ Pass ☐ Fail

Reviewer Initials / Date:
ML 09/01/21

125



element

SOP 2160

QA DATA AUDIT FORM

Job Number(s): 249635

Product: X-Stream Synthetic Urine

Analysis: Selected Anions Method: SOP 4020, Rev 12 Instrument: IC-8

Date Prepared: 01 SEP 21 Date Analyzed: 01 SEP 21

The analytical records package has been reviewed and the following parameters have been verified:

Yes N/A

- ☒ The technical review has been completed and is evidenced in the completion of the technical review form and signature of the analyst and the reviewer
- ☐ ☒ NCRs or deviations raised and relating to this analysis have been satisfactorily closed
- ☐ ☒ OOT or OOS investigation in progress
- ☐ ☒ OOT or OOS investigations relating to this analysis have been satisfactorily closed
- ☒ ☐ The final analytical results and conclusions are reported accurately and in line with the customer's or product specification
- ☐ ☒ The OOT or OOS investigation report number is included in the final analytical report
- ☒ ☐ Other comments relating to the sample(s) or the analyses (as applicable) are included in the final analytical report
- ☒ ☐ Electronic data / audit trails reviewed acceptable

☒ N/A Deviation(s) from SOP or Method, OOT or OOS (please attached):
☐ NCR N ☐ OOS ☐ OOT

I certify that the data contained in this package has been reported in line with the product specification. This data has been acquired under Element Standard Operating Procedures and in compliance with cGMP/cGLP. Any deviations, OOT, OOS or NCRs have been investigated, documented and either corrected or justified and have been satisfactorily closed.

QA Signature: Rene Ungaridi Date: 07 SEP 21



SOP 2160

Job Number(s): 249635 Product: Synthetic Urine
 Date Analyzed: 09-01-21 Analysis: Selected Anions by SOP4020R12
 Analyst: J. Richmond Instrument: Nimble IC-8

COMMON ABBREVIATIONS:

NR	NOT REPORTED	BDL	BELOW DETECTION LIMIT	ND	NONE DETECTED
ICV	INITIAL CALIBRATION VERIFICATION	CCV	CONTINUING CALIBRATION VERIFICATION		
WRT	WRONG RETENTION TIME	RPD	RELATIVE PERCENT DIFFERENCE		

This IC/LC data package contains the following (note any omissions or problems):

- List of samples analyzed: ☒ Attached Logbook No. 2182 Page 235
 Prep. Logbook No. 2373 Page 35
 - Reagents within expiry: ☒ Satisfactory ☐ See NCR
 - Calibration: ☐ N/A ☒ Satisfactory r² > 0.999 ☐ Prev. cal. date /
 - Continuing Calibration: ☐ N/A ☒ Satisfactory ± 10% ☐ See QC Action Form
 - ICV results: ☐ N/A ☒ Satisfactory ± 10% ☐ See QC Action Form
 - LFB results: ☒ N/A ☐ Satisfactory / ☐ See QC Action Form
 - MS recoveries: ☐ N/A ☒ Satisfactory 81-108 ☐ See QC Action Form
 - Duplicate/MSD RPD: ☐ N/A ☒ Satisfactory 3 ions NO other RPD 1-3 ☐ See QC Action Form
 - Method Blanks: ☒ Satisfactory ND ☐ See QC Action Form
 - System Suitability: Resolution ☐ N/A (NLT 1.5) 2.1 RSD ☒ N/A (NMT /) /
- Tailing Factor ☒ N/A (NMT /) Theoretical Plates ☒ N/A (NLT /)

Other: ☒ N/A /Deviation(s) from SOP or Method, OOT or OOS: ☒ None ☐ NCR / ☐ OOS/OOT /

I certify that this data has been acquired under Element Standard Operating Procedures and that any non-conformances have been properly documented and justified.

Analyst Signature: J. Richmond Date: 09-02-21

I certify that this data has been reviewed, calculations verified, and non-conformances satisfactorily handled.

Electronic data / audit trails reviewed: ☒ Yes ☐ No
 Reviewer Signature: [Signature] Date: 09-03-21

IC - Record of Sample Preparation
Logbook #2373

Date: 09-01-21
 Prepared By: J. W. Johnson
 Job No: 249635

Analysis: Anions by SOP 4020 R12
 Sample Matrix: Synthetic Urine
 Client: Spectrum Labs LLC

09-01-21
09-01-21

09-01-21
09-01-21

Sample ID	Sample Amount (mL or g)	Dilution (mL)	Final Dilution
Method 130	1.00 (H ₂ O) →	20.0	1.00 → 20.0
000279833 OPP	1.00 →	20.0	1.00 → 20.0
000279833 OPP w/p	1.00 →	20.0	1.00 → 20.0
000279833 OPP 20 dF w/w ms		spike 100 mL → 10.0 mL sample	
		20.2 dF	
000279833 OPP 20 dF in high ms @ 400 dF		spike → 1.00 → 20.0	
		250 mL	
000279833 OPP 400 dF			1.00 → 15.0 @ 400 dF
000279833 OPP w/p 400 dF			1.00 → 15.0 @ 400 dF
000279833 OPP 400 dF ms		Cl spike 160 mL → 1.00 → 15.0	@ 400 dF
<u>09-01-21</u>			

Comments: Use only the synthetic urine in the bottle -
Not the heating pouch. Transfer small amt. to disp.
beaker w/ a transfer pipette (w/ plastic) H₂O as
M-B. (1 mL) vortex to mix

09-01-21

Balance ID: B-50 1 g/mL Reagents: DI H₂O purif w/ no exp
 Pipette ID: PLC-23 (1 mL) PLC-11 100 µL 100 µm Gaining MPG 2011603-100 exp 04/2022
 Syringe ID: NA Accu-M. Cl: 100 µm 2200250-99-01 exp 03-24-23
PLC-20 = 200 µL 09-01-21

A	B	C	D	E
1	249635 Anion Calcs.123			Low
2	in LIMS spreadsheets folder under jrichman			Spike PPM
3				20.2
4				
5	All spikes on first sample			
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				

A	B	C	D	E
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				

A	B	C	D	E
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				

A	B	C	D	E
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				

A	B	C	D	E
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				

A	B	C	D	E
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				

A	B	C	D	E
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				

A	B	C	D	E
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				

A	B	C	D	E
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				

A	B	C	D	E
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				

A	B	C	D	E
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				

A	B	C	D	E
1	249635 Anion Calcs.123			Low
2	in LIMS spreadsheets folder under jrichman			<u>Spike PPM</u>
3				0.1*100*20.2/10
4				
5	All spikes on first sample			
6				<u>Mid Spike PPM</u>
7				0.25*100*400/20
8				<u>Cl Spike PPM</u>
9				0.16*100*6000/15
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				

Ion	<u>Detection Limit</u>	<u>µg/mL</u>	<u>Method Blank</u>	<u>µg/mL</u>
Fluoride	0.02*400		BDL	
Chloride	0.02*400		BDL	
Bromide	0.02*400		BDL	
Nitrate	0.02*20		BDL	
Phosphate	0.02*20		BDL	
Sulfate	0.02*20		BDL	

RPD NA for ND samples

Ion	<u>µg/mL</u>	<u>Sample</u>	<u>Duplicate</u>	<u>RPD</u>
Fluoride	ND		ND	NA
Chloride	6032		6138	100*(C20-B20)/((B20+C20)*0.5)
Bromide	ND		ND	NA
Nitrate	ND		ND	NA
Phosphate	12.7		13.1	100*(C23-B23)/((B23+C23)*0.5)
Sulfate	36.4		36.8	100*(C24-B24)/((B24+C24)*0.5)

Mid/High level spike		Low Level Spike	
Ion	<u>Spiked Sample</u>	<u>µg/g</u>	<u>% Recovery</u>
Fluoride	502	NA	NA
Chloride	12969	NA	NA
Bromide	502	NA	NA
Nitrate	491	16.4	100*(D32)/E\$3
Phosphate	518	32.5	100*(D33-B23)/E\$3
Sulfate	512	56.3	100*(D34-B24)/E\$3

209-01-21 put on prep He sparged AS14 Eluent
 2280-0901-080-3 exp 12-01-21 a prime - Keep 300 ml loop
 35°C at 30°C set. Start flow @ 0920 1.2 ml/min 39 mA
 wash column. 2 cap up rinse vials after High End.
 18.1 µs 1150 psi @ 0940 OK. cap up rinse after Jui #18

Date: 09-01-21 Analyst: J. Rickman Instrument # IC-8

Analysis: Anions by GC 04020 R12

Column Type: AS14 4 X 250 mm + Guard 201109120

Column S/N: 200403228 Column Temp: 35°C Detector Temp: 30°C

Regenerant: Recycled Eluent Recycle or External: Recycle

Suppressor Current: 39 mA Regenerant Pressure: NA

Detector: Supp. Carb. Wavelength: NA Background: 18.1 µs

Flow Rate: 1.2 ml/min Pressure: 1150 psi Injection Volume: 3.0 µl

Bottle	%	Eluent	ID	Exp
A	100	AS14 Eluent	2280-0901-080-3	12-01-21
B				
C				
D				

shut off flow @ 1725.

Sequence: 7 ANIONS 090121IC8
 Operator: JBR

Title: Anions
 Data source: WS160309_bcal
 Location: IC80921
 Timebase: IC8
 #Samples: 29

Page 1 of 1
 Printed: 9/1/2021 5:24:21 PM

Created: 9/1/2021 9:11:23 AM by JBR
 Last Update: 9/1/2021 4:36:17 PM by JBR

No.	Name	Type	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Dil. Factor	STD Amount	Sample ID	Replicate ID	Comment
1	Water Blank	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 9:43:04 AM	1.0000	1.0000	Water Blank		
2	STD1	Standard	300.0	Anions	EPA300A	Finished	9/1/2021 9:58:15 AM	1.0000	1.0000	0.10 ppm 2305-0810-104-1		Exp 09-10-21
3	STD2	Standard	300.0	Anions	EPA300A	Finished	9/1/2021 10:13:27 AM	1.0000	1.0000	0.25 ppm 2305-0810-104-2		Exp 09-10-21
4	STD3	Standard	300.0	Anions	EPA300A	Finished	9/1/2021 10:28:39 AM	1.0000	1.0000	0.5 ppm 2305-0810-104-3		Exp 09-10-21
5	STD4	Standard	300.0	Anions	EPA300A	Finished	9/1/2021 10:43:51 AM	1.0000	1.0000	1 ppm 2280-0830-079-2		Exp 09-10-21
6	STD5	Standard	300.0	Anions	EPA300A	Finished	9/1/2021 10:59:03 AM	1.0000	1.0000	2 ppm 2305-0810-104-5		Exp 09-10-21
7	STD6	Standard	300.0	Anions	EPA300A	Finished	9/1/2021 11:14:15 AM	1.0000	1.0000	5 ppm 2305-0810-104-6		Exp 09-10-21
8	1 ppm 7 Anion ICV Accu	Validate	300.0	Anions	EPA300A	Finished	9/1/2021 11:29:28 AM	1.0000	1.0000	1 ppm 2280-0830-079-3		Exp 09-10-21
9	Water Blank	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 11:44:40 AM	1.0000	1.0000	Water Blank		
10	249635 Method Blank	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 12:04:51 PM	20.0000	1.0000	249635 Method Blank		
11	249635 OPP	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 12:28:03 PM	20.0000	1.0000	249635 OPP		
12	249635 OPP Dup	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 12:39:08 PM	20.0000	1.0000	249635 OPP Dup		
13	249635 OPP Low MS	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 12:56:30 PM	20.0000	1.0000	249635 OPP Low MS		
14	Water Blank	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 1:13:55 PM	1.0000	1.0000	Water Blank		
15	249635 Method Blank	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 1:29:07 PM	400.0000	1.0000	249635 Method Blank		
16	249635 OPP	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 1:44:19 PM	400.0000	1.0000	249635 OPP		
17	249635 OPP Dup	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 1:59:31 PM	400.0000	1.0000	249635 OPP Dup		
18	249635 OPP MS	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 2:14:43 PM	400.0000	1.0000	249635 OPP MS		
19	1 PPM CCV	Validate	300.0	Anions	EPA300A	Finished	9/1/2021 2:29:56 PM	1.0000	1.0000	1 ppm 2280-0830-079-2		Exp 09-10-21
20	249635 OPP	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 2:45:08 PM	6000.0000	1.0000	249635 OPP		
21	249635 OPP Dup	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 3:00:20 PM	6000.0000	1.0000	249635 OPP Dup		
22	249635 OPP CI MS	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 3:15:32 PM	6000.0000	1.0000	249635 OPP CI MS		
23	1 PPM CCV	Validate	300.0	Anions	EPA300A	Finished	9/1/2021 3:30:44 PM	1.0000	1.0000	1 ppm 2280-0830-079-2		Exp 09-10-21
24	Water Blank	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 3:45:56 PM	1.0000	1.0000	Water Blank		
25	249668	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 4:01:09 PM	120000.0000	1.0000	249668		
26	249668	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 4:16:34 PM	120000.0000	1.0000	249668		
27	249668	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 4:31:46 PM	120000.0000	1.0000	249668		
28	249668	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 4:46:58 PM	200000.0000	1.0000	249668		
29	1 PPM CCV	Validate	300.0	Anions	EPA300A	Finished	9/1/2021 5:02:10 PM	1.0000	1.0000	1 ppm 2280-0830-079-2		Exp 09-10-21

This page has been redacted to
 protect client confidentiality.
 The original data has not been obscured

209-02-21 END

Sequence: 7 ANIONS 090121IC8
Operator: JBR

Title: Anions
Datatype: WS160309_local
Location: IC8W921
Timebase: IC8
#Samples: 29

Printed: 9/1/2021 5:24:21 PM

Created: 9/1/2021 9:11:23 AM by JBR
Last Update: 9/1/2021 4:36:17 PM by JBR

No.	Name	Type	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Dil. Factor	ISTD Amount	Sample ID	Replicate ID	Comment
1	Water Blank	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 9:43:04 AM	1.0000	1.0000	Water Blank		
2	STD1	Standard	300.0	Anions	EPA300A	Finished	9/1/2021 9:58:15 AM	1.0000	1.0000	0.10 ppm 2305-0810-104-1		Exp 09-10-21
3	STD2	Standard	300.0	Anions	EPA300A	Finished	9/1/2021 10:13:27 AM	1.0000	1.0000	0.25 ppm 2305-0810-104-2		Exp 09-10-21
4	STD3	Standard	300.0	Anions	EPA300A	Finished	9/1/2021 10:28:39 AM	1.0000	1.0000	0.5 ppm 2305-0810-104-3		Exp 09-10-21
5	STD4	Standard	300.0	Anions	EPA300A	Finished	9/1/2021 10:43:51 AM	1.0000	1.0000	1 ppm 2280-0830-079-2		Exp 09-30-21
6	STD5	Standard	300.0	Anions	EPA300A	Finished	9/1/2021 10:59:03 AM	1.0000	1.0000	2 ppm 2305-0810-104-5		Exp 09-10-21
7	STD6	Standard	300.0	Anions	EPA300A	Finished	9/1/2021 11:14:15 AM	1.0000	1.0000	5 ppm 2305-0810-104-6		Exp 09-10-21
8	1 ppm 7 Anion ICV Accu	Validate	300.0	Anions	EPA300A	Finished	9/1/2021 11:29:28 AM	1.0000	1.0000	1 ppm 2280-0830-079-3		Exp 09-30-21
9	Water Blank	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 11:44:40 AM	1.0000	1.0000	Water Blank		
10	249635 Method Blank	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 12:04:51 PM	20.0000	1.0000	249635 Method Blank		
11	249635 OPP	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 12:20:03 PM	20.0000	1.0000	249635 OPP		
12	249635 OPP Dup	Unknown	300.0	AnionsL	EPA300A	Finished	9/1/2021 12:35:06 PM	20.0000	1.0000	249635 OPP Dup		
13	249635 OPP Low MS	Unknown	300.0	AnionsL	EPA300A	Finished	9/1/2021 12:56:30 PM	20.2000	1.0000	249635 OPP Low MS		
14	Water Blank	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 1:13:55 PM	1.0000	1.0000	Water Blank		
15	249635 Method Blank	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 1:29:07 PM	400.0000	1.0000	249635 Method Blank		
16	249635 OPP	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 1:44:19 PM	400.0000	1.0000	249635 OPP		
17	249635 OPP Dup	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 1:59:31 PM	400.0000	1.0000	249635 OPP Dup		
18	249635 OPP MS	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 2:14:43 PM	400.0000	1.0000	249635 OPP MS		
19	1 PPM CCV	Validate	300.0	Anions	EPA300A	Finished	9/1/2021 2:29:56 PM	1.0000	1.0000	1 ppm 2280-0830-079-2		Exp 09-30-21
20	249635 OPP	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 2:45:08 PM	6000.0000	1.0000	249635 OPP		
21	249635 OPP Dup	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 3:00:20 PM	6000.0000	1.0000	249635 OPP Dup		
22	249635 OPP CI MS	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 3:15:32 PM	6000.0000	1.0000	249635 OPP CI MS		
23	1 PPM CCV	Validate	300.0	Anions	EPA300A	Finished	9/1/2021 3:30:44 PM	1.0000	1.0000	1 ppm 2280-0830-079-2		Exp 09-30-21
24	Water Blank	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 3:45:56 PM	1.0000	1.0000	Water Blank		
25	249668	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 4:01:09 PM	120000.0000	1.0000	249668		
26	249668	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 4:16:34 PM	120000.0000	1.0000	249668		
27	249668	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 4:31:46 PM	120000.0000	1.0000	249668		
28	249668	Unknown	300.0	Anions	EPA300A	Finished	9/1/2021 4:46:58 PM	200000.0000	1.0000	249668		
29	1 PPM CCV	Validate	300.0	Anions	EPA300A	Finished	9/1/2021 5:02:10 PM	1.0000	1.0000	1 ppm 2280-0830-079-2		Exp 09-30-21

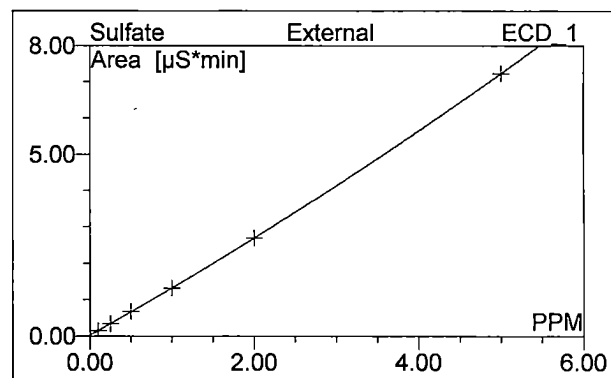
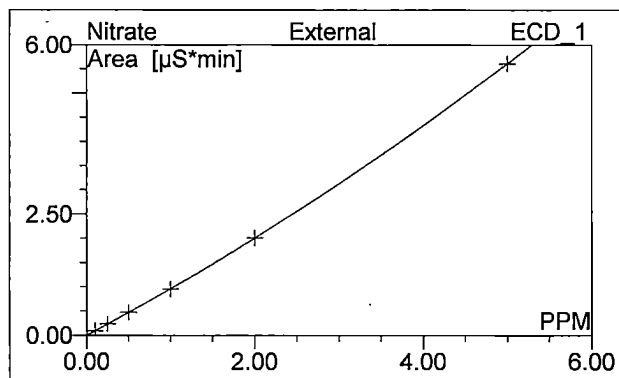
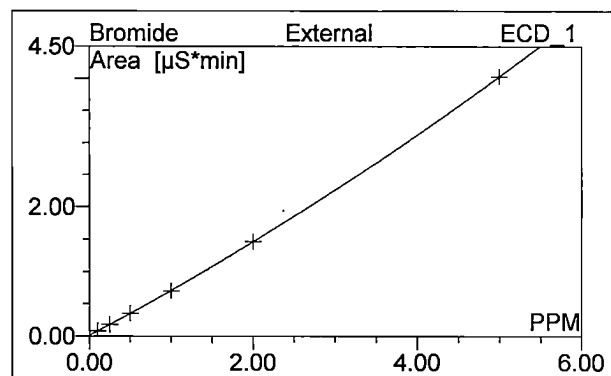
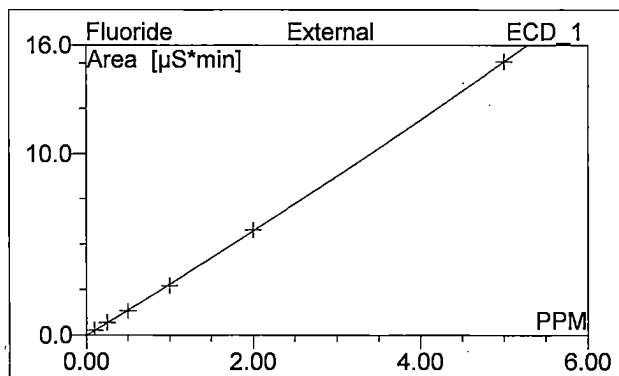
This page has been redacted to protect client confidentiality.
The original data has not been obscured

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:17 AM**8 1 ppm 7 Anion ICV Accu****Exp 09-30-21**

Sample Name: **1 ppm 7 Anion ICV Accu**
 Vial Number: **0**
 Sample Type: **validate**
 Control Program: **Anions**
 Quantif. Method: **EPA300A**
 Recording Time: **9/1/2021 11:29**
 Run Time (min): **12.80**

Injection Volume: **300.0**
 Channel: **ECD_1**
 Wavelength: **n.a.**
 Bandwidth: **n.a.**
 Dilution Factor: **1.00**
 Sample Weight: **1.0000**
 Sample Amount: **1.0000**

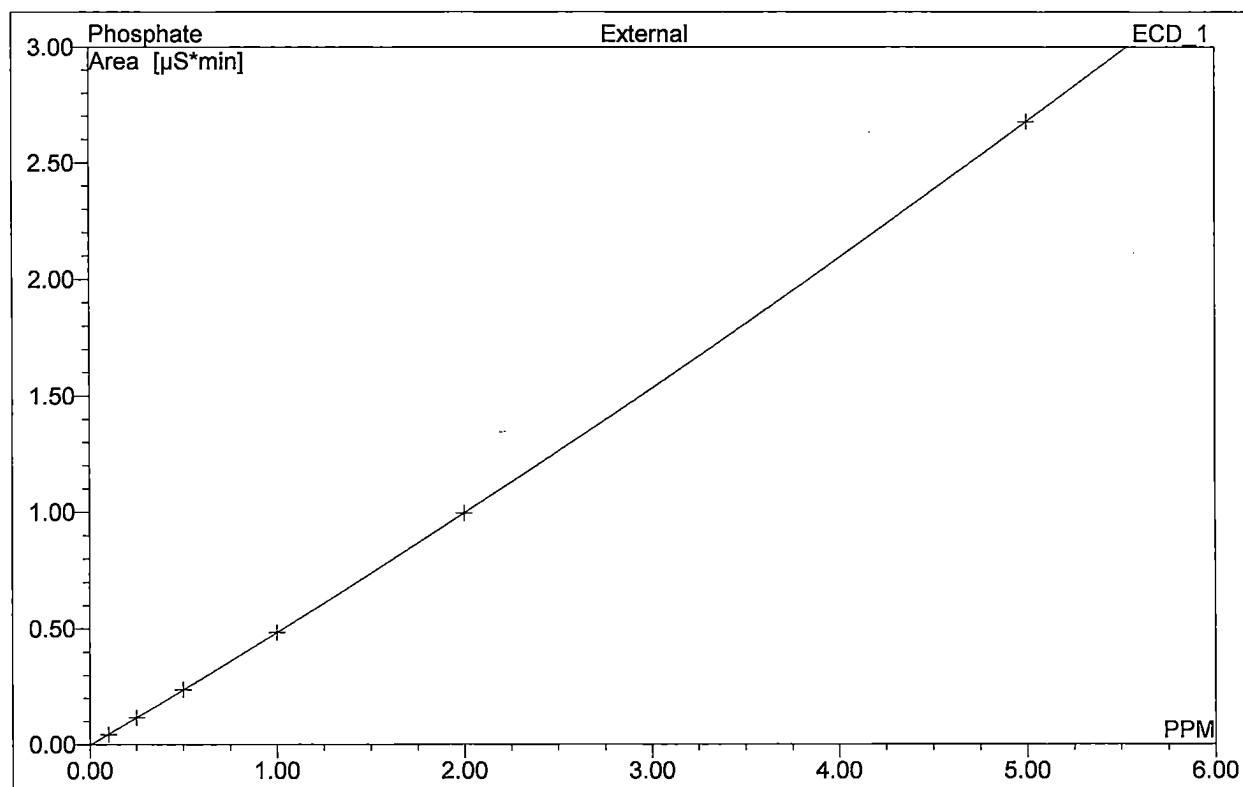


No.	Ret.Time min	Peak Name	Cal.Type	Points	R-Square %	Offset	Slope	Curve
1	3.18	Fluoride	QOff	6	99.993	-0.0417	2.7855	0.0480
2	4.08	Chloride	QOff	6	99.997	-0.0038	1.5948	0.0869
3	4.65	Nitrite	QOff	6	99.999	-0.0209	0.9833	0.0265
4	5.48	Bromide	QOff	6	100.000	0.0081	0.6706	0.0268
5	6.12	Nitrate	QOff	6	100.000	-0.0010	0.9235	0.0396
6	8.67	Phosphate	QOff	6	100.000	-0.0036	0.4751	0.0122
7	10.26	Sulfate	QOff	6	100.000	0.0229	1.2660	0.0350
Average:					99.9984	-0.0057	1.2427	0.0393

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:17 AM**8 1 ppm 2280-0830-079-3****Exp 09-30-21**

Sample Name:	1 ppm 7 Anion ICV Accu	Injection Volume:	300.0
Vial Number:	0	Channel:	ECD_1
Sample Type:	validate	Wavelength:	n.a.
Control Program:	Anions	Bandwidth:	n.a.
Quantif. Method:	EPA300A	Dilution Factor:	1.0000
Recording Time:	9/1/2021 11:29	Sample Weight:	1.0000
Run Time (min):	12.80	Sample Amount:	1.0000

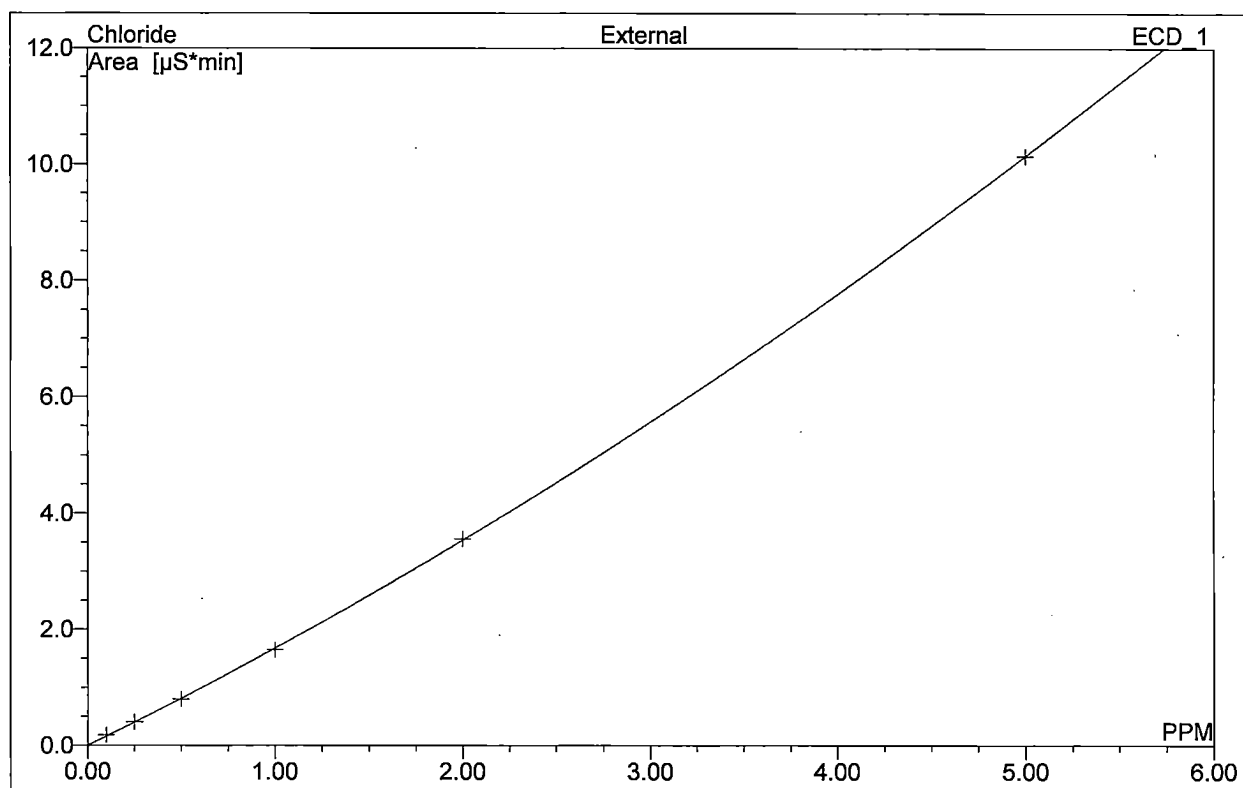


No.	Ret.Time min	Peak Name	Cal.Type	Points	R-Square %	Offset	Slope	Curve
1	3.18	Fluoride	QOff	6	99.993	-0.0417	2.7855	0.0480
2	4.08	Chloride	QOff	6	99.997	-0.0038	1.5948	0.0869
3	4.65	Nitrite	QOff	6	99.999	-0.0209	0.9833	0.0265
4	5.48	Bromide	QOff	6	100.000	0.0081	0.6706	0.0268
5	6.12	Nitrate	QOff	6	100.000	-0.0010	0.9235	0.0396
6	8.67	Phosphate	QOff	6	100.000	-0.0036	0.4751	0.0122
7	10.26	Sulfate	QOff	6	100.000	0.0229	1.2660	0.0350
Average:					99.9984	-0.0057	1.2427	0.0393

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:17 AM**8 1 ppm 2280-0830-079-3****Exp 09-30-21**

Sample Name:	1 ppm 7 Anion ICV Accu	Injection Volume:	300.0
Vial Number:	0	Channel:	ECD_1
Sample Type:	validate	Wavelength:	n.a.
Control Program:	Anions	Bandwidth:	n.a.
Quantif. Method:	EPA300A	Dilution Factor:	1.0000
Recording Time:	9/1/2021 11:29	Sample Weight:	1.0000
Run Time (min):	12.80	Sample Amount:	1.0000



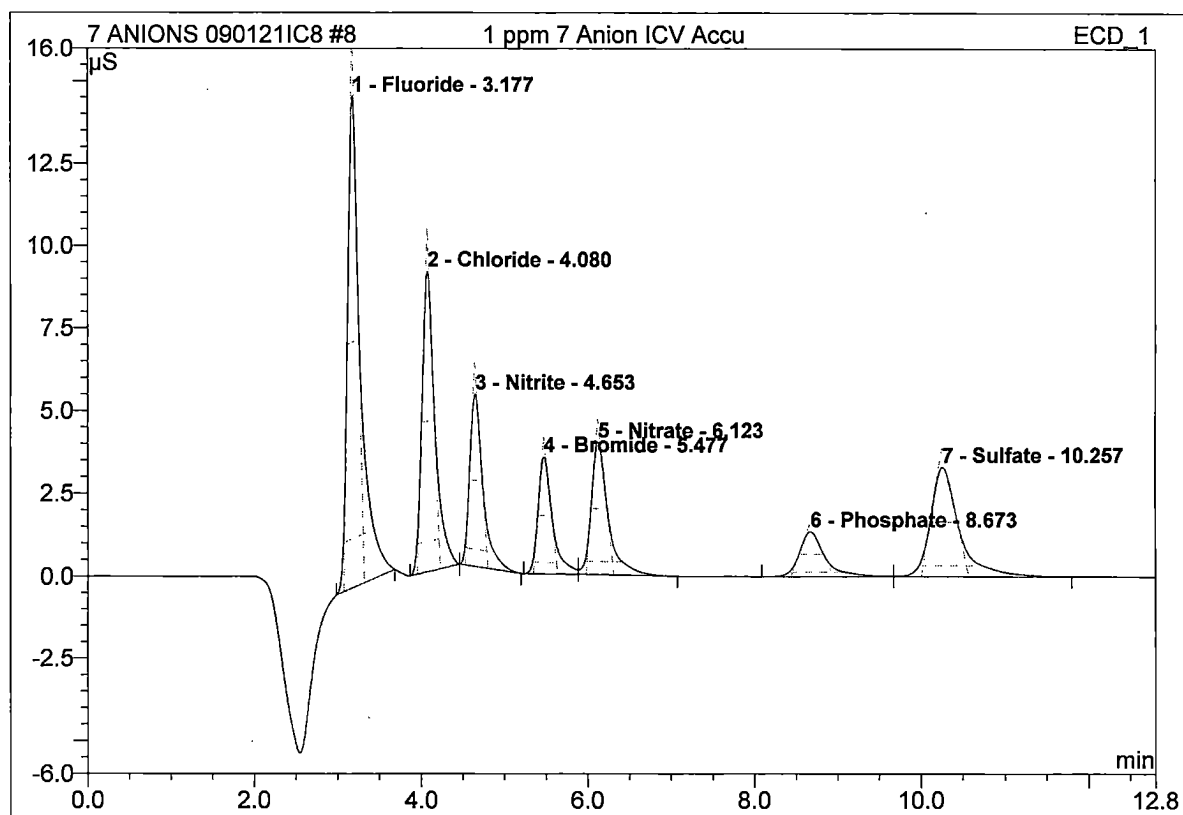
No.	Ret.Time min	Peak Name	Cal.Type	Points	R-Square %	Offset	Slope	Curve
1	3.18	Fluoride	QOff	6	99.993	-0.0417	2.7855	0.0480
2	4.08	Chloride	QOff	6	99.997	-0.0038	1.5948	0.0869
3	4.65	Nitrite	QOff	6	99.999	-0.0209	0.9833	0.0265
4	5.48	Bromide	QOff	6	100.000	0.0081	0.6706	0.0268
5	6.12	Nitrate	QOff	6	100.000	-0.0010	0.9235	0.0396
6	8.67	Phosphate	QOff	6	100.000	-0.0036	0.4751	0.0122
7	10.26	Sulfate	QOff	6	100.000	0.0229	1.2660	0.0350
Average:					99.9984	-0.0057	1.2427	0.0393

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:17 AM**8 1 ppm 7 Anion ICV Accu****Exp 09-30-21**

Sample Name: **1 ppm 7 Anion ICV Accu**
 Vial Number: **0**
 Sample Type: **validate**
 Control Program: **Anions**
 Quantif. Method: **EPA300A**
 Recording Time: **9/1/2021 11:29**
 Run Time (min): **12.80**

Injection Volume: **300.0**
 Channel: **ECD_1**
 Wavelength: **n.a.**
 Bandwidth: **n.a.**
 Dilution Factor: **1.0000**
 Sample Weight: **1.0000**
 Sample Amount: **1.0000**

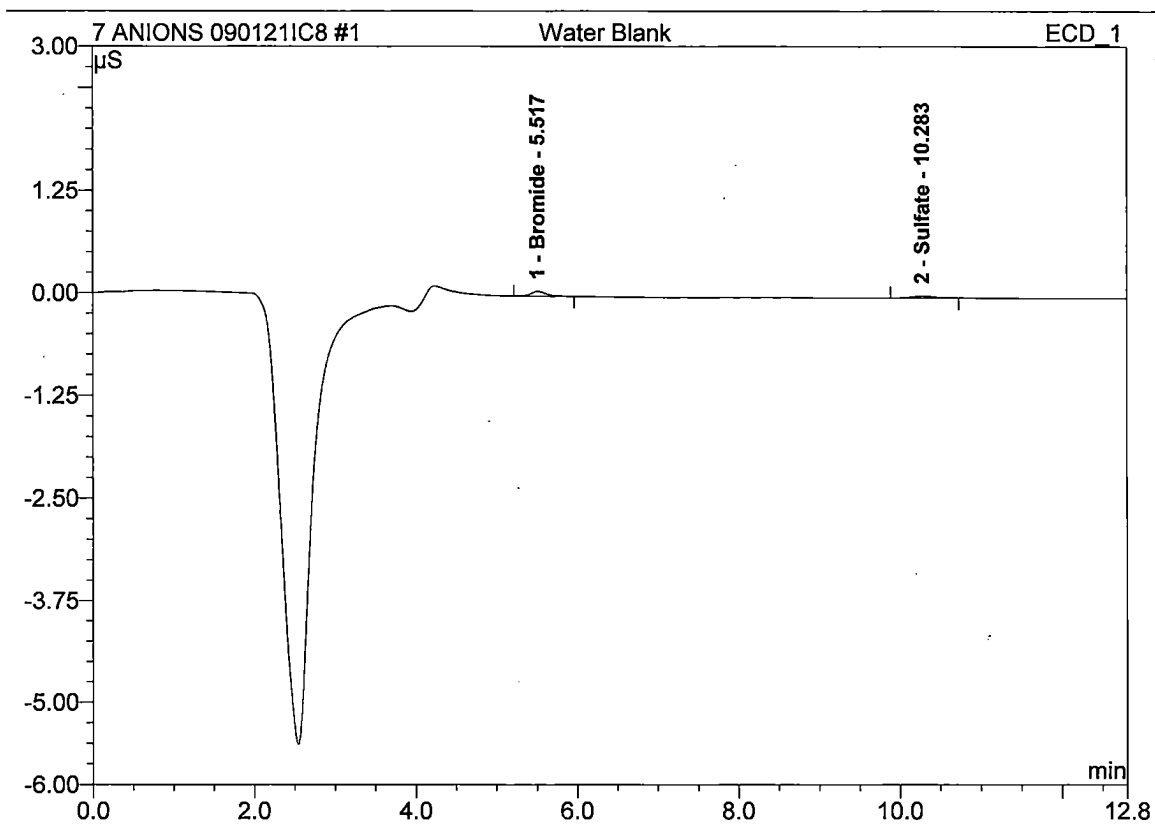


No.	Ret.Time min	Peakname min	Height μS	Width min	Type	Resol (USP)	Asym (USP)	Plates (USP)
1	3.177	Fluoride	14.880	0.245	BMB	3.51	1.88	2701
2	4.080	Chloride	9.084	0.271	BMB	2.11	1.43	3636
3	4.653	Nitrite	5.202	0.272	bMB	2.92	1.56	4683
4	5.477	Bromide	3.524	0.292	BM	2.07	1.65	5648
5	6.123	Nitrate	3.995	0.333	MB	6.05	1.59	5416
6	8.673	Phosphate	1.351	0.510	BM	2.95	1.49	4625
7	10.257	Sulfate	3.293	0.562	MB	n.a.	1.54	5326
Average:			5.904	0.355		3.27	1.59	4576

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:00 AM**1 Water Blank**

Sample ID:	Water Blank	Injection Volume:	300.0
Vial Number:	0	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	Anions	Bandwidth:	n.a.
Quantif. Method:	EPA300A	Dilution Factor:	1.00
Recording Time:	9/1/2021 9:43	Sample Weight:	1.0000
Run Time (min):	12.80	Sample Amount:	1.0000

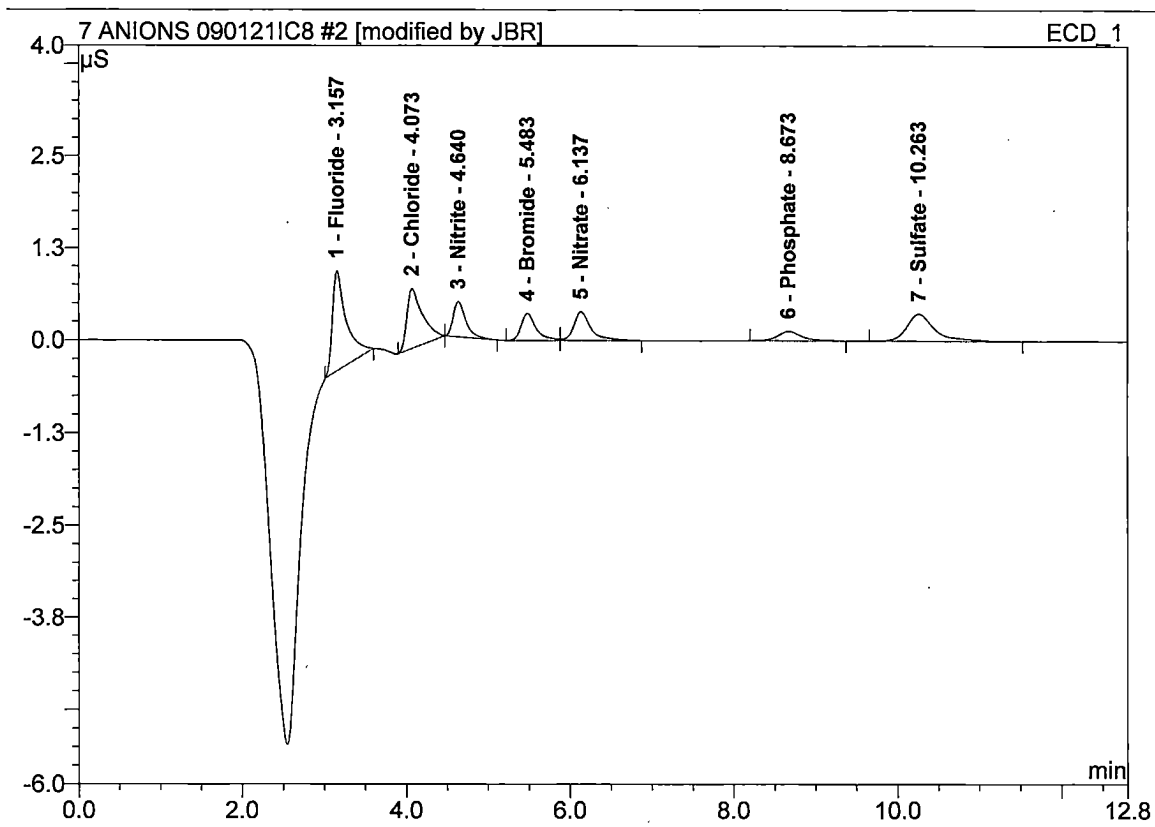


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Cal.Type
1	5.52	Bromide	0.058	0.013	65.11	0.017	P-P
2	10.28	Sulfate	0.021	0.007	34.89	0.005	P-P
Total:			0.079	0.020	100.00	0.022	

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:20 AM**2 STD1****Exp 09-10-21**

Sample ID:	0.10 ppm 2305-0810-104-1	Injection Volume:	300.0
Vial Number:	0	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	Anions	Bandwidth:	n.a.
Quantif. Method:	EPA300A	Dilution Factor:	1.00
Recording Time:	9/1/2021 9:58	Sample Weight:	1.0000
Run Time (min):	12.80	Sample Amount:	1.0000

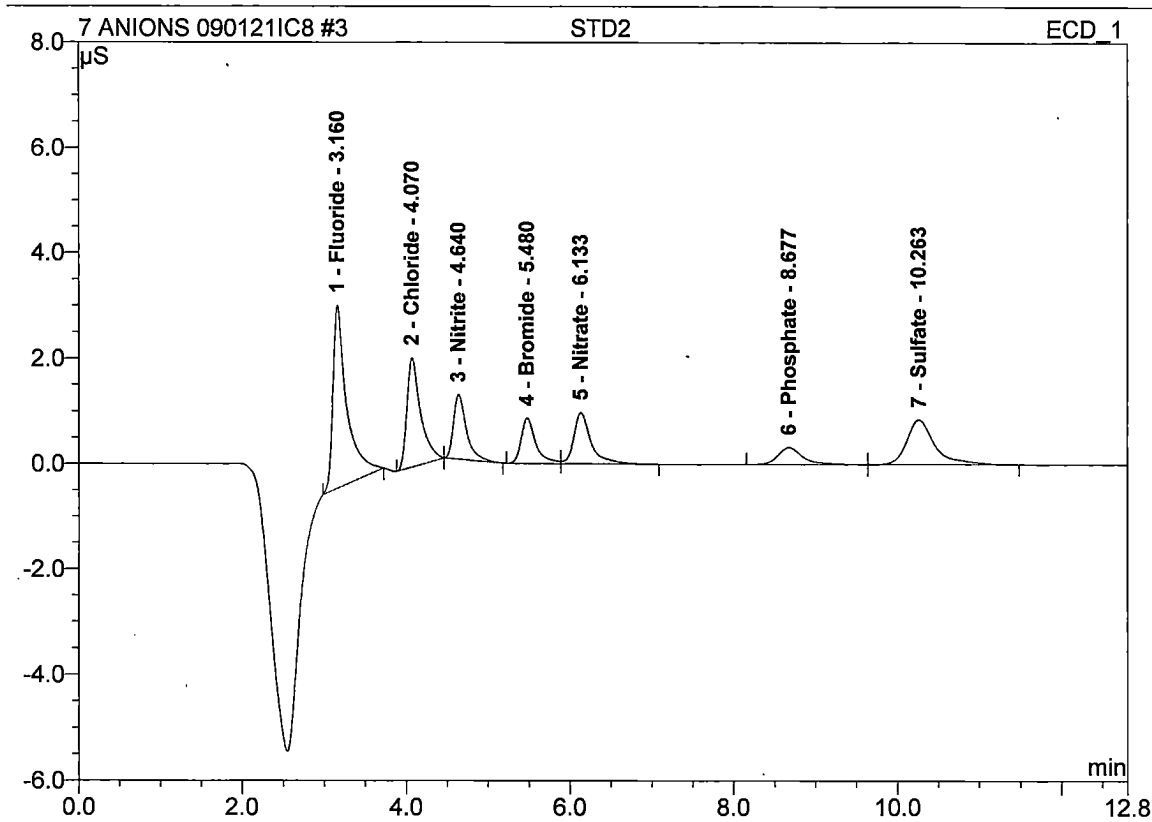


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Cal.Type
1	3.16	Fluoride	1.352	0.264	29.87	0.110	QOff
2	4.07	Chloride	0.806	0.178	20.12	0.113	QOff
3	4.64	Nitrite	0.471	0.084	9.54	0.107	QOff
4	5.48	Bromide	0.363	0.078	8.77	0.103	QOff
5	6.14	Nitrate	0.384	0.092	10.40	0.100	QOff
6	8.67	Phosphate	0.124	0.043	4.82	0.097	QOff
7	10.26	Sulfate	0.363	0.146	16.47	0.097	QOff
Total:			3.862	0.885	100.00	0.727	

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:20 AM**3 STD2****Exp 09-10-21**

Sample ID:	0.25 ppm 2305-0810-104-2	Injection Volume:	300.0
Vial Number:	0	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	Anions	Bandwidth:	n.a.
Quantif. Method:	EPA300A	Dilution Factor:	1.00
Recording Time:	9/1/2021 10:13	Sample Weight:	1.0000
Run Time (min):	12.80	Sample Amount:	1.0000

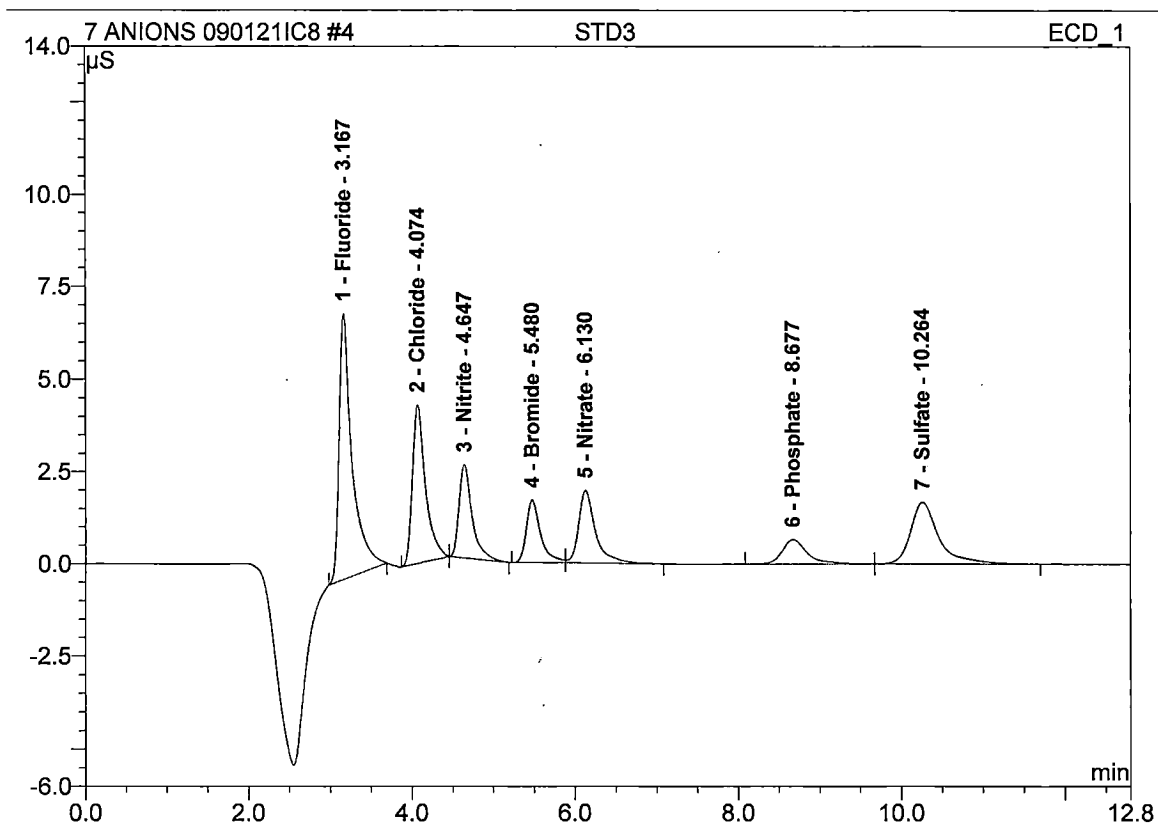


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Cal.Type
1	3.16	Fluoride	3.469	0.688	31.51	0.261	QOff
2	4.07	Chloride	2.071	0.403	18.44	0.252	QOff
3	4.64	Nitrite	1.219	0.226	10.32	0.249	QOff
4	5.48	Bromide	0.858	0.179	8.17	0.252	QOff
5	6.13	Nitrate	0.968	0.234	10.71	0.252	QOff
6	8.68	Phosphate	0.324	0.116	5.31	0.250	QOff
7	10.26	Sulfate	0.848	0.339	15.53	0.248	QOff
Total:			9.758	2.185	100.00	1.763	

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:20 AM**4 STD3****Exp 09-10-21**

Sample ID:	0.5 ppm 2305-0810-104-3	Injection Volume:	300.0
Vial Number:	0	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	Anions	Bandwidth:	n.a.
Quantif. Method:	EPA300A	Dilution Factor:	1.00
Recording Time:	9/1/2021 10:28	Sample Weight:	1.0000
Run Time (min):	12.80	Sample Amount:	1.0000

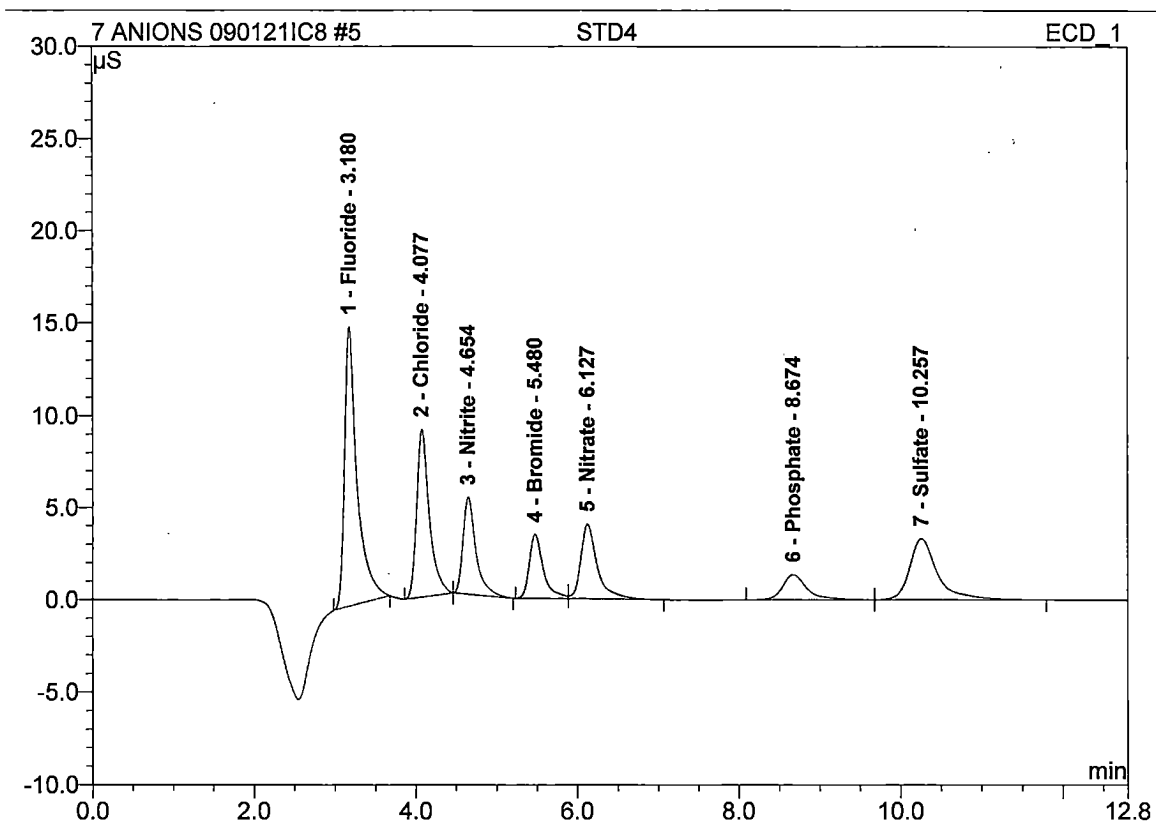


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount PPM	Cal.Type
1	3.17	Fluoride	7.185	1.331	30.69	0.489	QOff
2	4.07	Chloride	4.299	0.800	18.45	0.491	QOff
3	4.65	Nitrite	2.529	0.472	10.89	0.495	QOff
4	5.48	Bromide	1.702	0.349	8.04	0.498	QOff
5	6.13	Nitrate	1.967	0.471	10.87	0.501	QOff
6	8.68	Phosphate	0.661	0.238	5.49	0.502	QOff
7	10.26	Sulfate	1.679	0.675	15.57	0.508	QOff
Total:			20.021	4.337	100.00	3.484	

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:20 AM**5 STD4****Exp 09-30-21**

Sample ID:	1 ppm 2280-0830-079-2	Injection Volume:	300.0
Vial Number:	0	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	Anions	Bandwidth:	n.a.
Quantif. Method:	EPA300A	Dilution Factor:	1.00
Recording Time:	9/1/2021 10:43	Sample Weight:	1.0000
Run Time (min):	12.80	Sample Amount:	1.0000



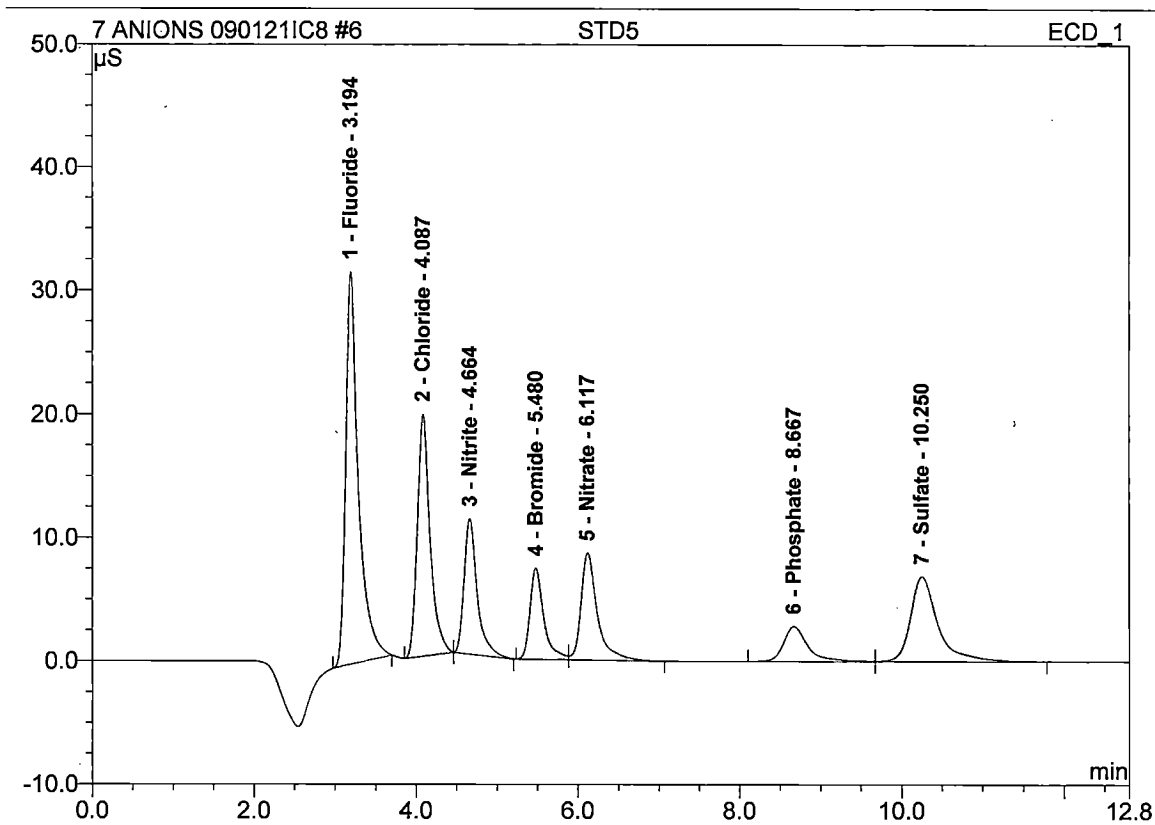
No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount PPM	Cal.Type
1	3.18	Fluoride	15.122	2.719	30.85	0.975	QOff
2	4.08	Chloride	9.101	1.648	18.70	0.983	QOff
3	4.65	Nitrite	5.262	0.984	11.16	0.995	QOff
4	5.48	Bromide	3.475	0.701	7.95	0.993	QOff
5	6.13	Nitrate	4.046	0.957	10.85	0.995	QOff
6	8.67	Phosphate	1.355	0.485	5.50	1.002	QOff
7	10.26	Sulfate	3.312	1.320	14.98	0.997	QOff
Total:			41.673	8.813	100.00	6.940	

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:20 AM**6 STD5****Exp 09-10-21**

Sample ID: **2 ppm 2305-0810-104-5**
 Vial Number: **0**
 Sample Type: **standard**
 Control Program: **Anions**
 Quantif. Method: **EPA300A**
 Recording Time: **9/1/2021 10:59**
 Run Time (min): **12.80**

Injection Volume: **300.0**
 Channel: **ECD_1**
 Wavelength: **n.a.**
 Bandwidth: **n.a.**
 Dilution Factor: **1.00**
 Sample Weight: **1.0000**
 Sample Amount: **1.0000**

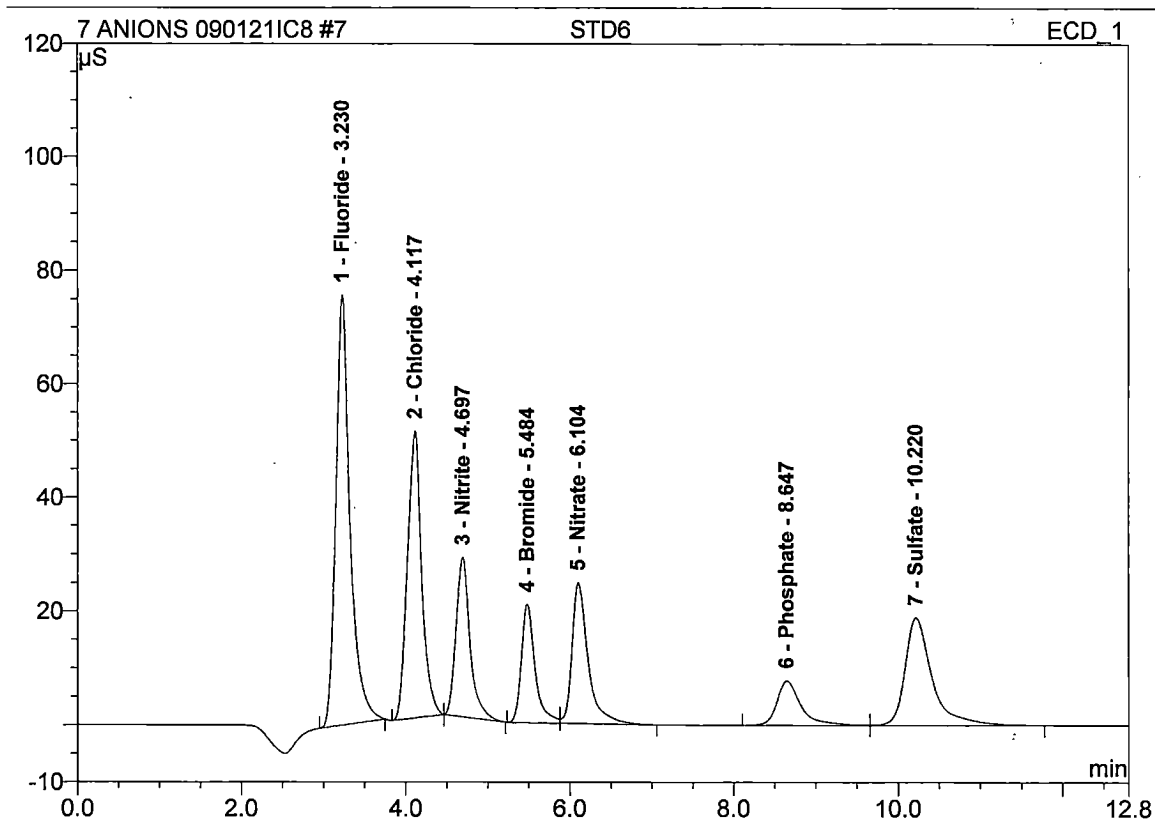


No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount PPM	Cal.Type
1	3.19	Fluoride	31.726	5.773	31.14	2.017	QOff
2	4.09	Chloride	19.567	3.556	19.18	2.012	QOff
3	4.66	Nitrite	10.925	2.056	11.09	2.004	QOff
4	5.48	Bromide	7.368	1.460	7.87	2.004	QOff
5	6.12	Nitrate	8.637	2.007	10.83	2.003	QOff
6	8.67	Phosphate	2.817	0.994	5.36	1.998	QOff
7	10.25	Sulfate	6.866	2.694	14.53	1.999	QOff
Total:			87.907	18.542	100.00	14.039	

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:20 AM**7 STD6****Exp 09-10-21**

Sample ID:	5 ppm 2305-0810-104-6	Injection Volume:	300.0
Vial Number:	0	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	Anions	Bandwidth:	n.a.
Quantif. Method:	EPA300A	Dilution Factor:	1.00
Recording Time:	9/1/2021 11:14	Sample Weight:	1.0000
Run Time (min):	12.80	Sample Amount:	1.0000

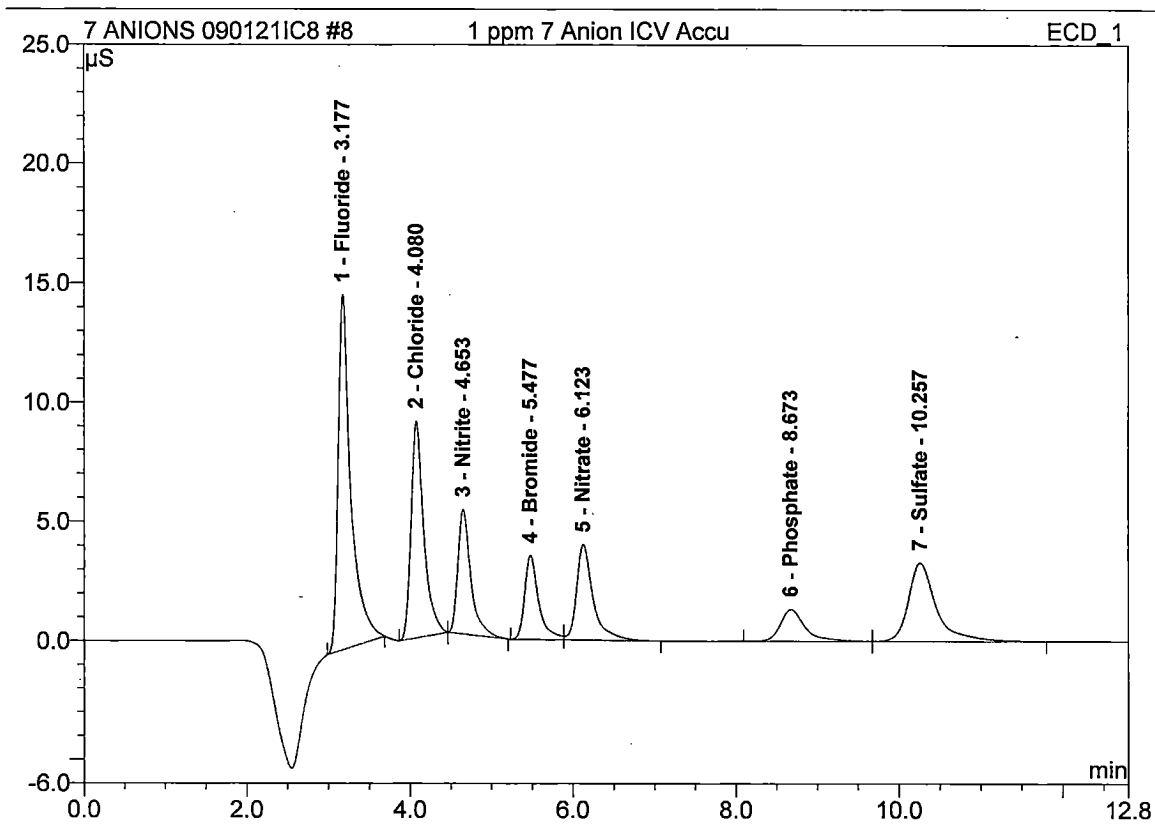


No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount PPM	Cal.Type
1	3.23	Fluoride	75.683	15.080	29.97	4.998	QOff
2	4.12	Chloride	50.367	10.139	20.15	4.999	QOff
3	4.70	Nitrite	27.912	5.557	11.04	5.000	QOff
4	5.48	Bromide	20.747	4.030	8.01	5.000	QOff
5	6.10	Nitrate	24.643	5.607	11.14	5.000	QOff
6	8.65	Phosphate	7.781	2.676	5.32	5.000	QOff
7	10.22	Sulfate	18.872	7.228	14.36	5.000	QOff
Total:			226.003	50.316	100.00	34.997	

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:20 AM**8 1 ppm 7 Anion ICV Accu****Exp 09-30-21**

Sample ID:	1 ppm 2280-0830-079-3	Injection Volume:	300.0
Vial Number:	0	Channel:	ECD_1
Sample Type:	validate	Wavelength:	n.a.
Control Program:	Anions	Bandwidth:	n.a.
Quantif. Method:	EPA300A	Dilution Factor:	1.00
Recording Time:	9/1/2021 11:29	Sample Weight:	1.0000
Run Time (min):	12.80	Sample Amount:	1.0000

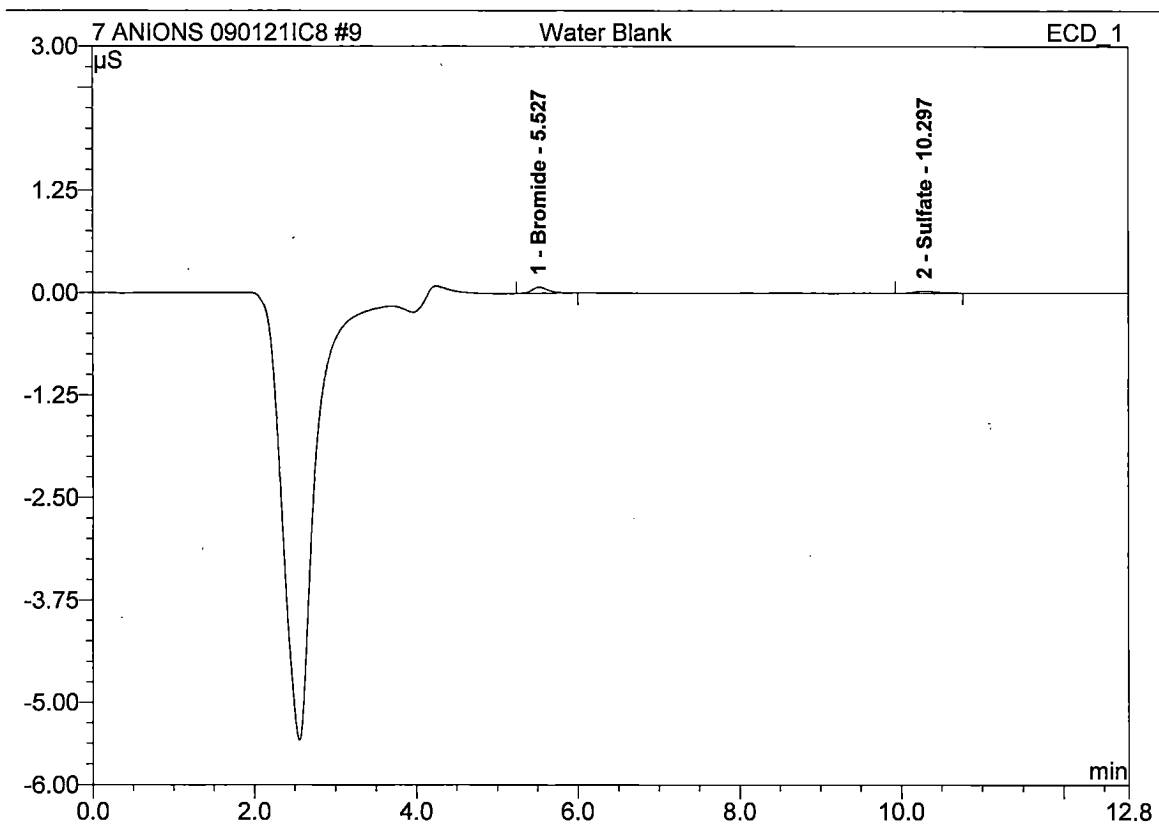


No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S} \cdot \text{min}$	Rel.Area %	Amount PPM	Cal.Type
1	3.18	Fluoride	14.880	2.682	30.68	0.962	QOff
2	4.08	Chloride	9.084	1.646	18.83	0.982	QOff
3	4.65	Nitrite	5.202	0.968	11.07	0.980	QOff
4	5.48	Bromide	3.524	0.708	8.10	1.004	QOff
5	6.12	Nitrate	3.995	0.943	10.78	0.981	QOff
6	8.67	Phosphate	1.351	0.483	5.52	0.998	QOff
7	10.26	Sulfate	3.293	1.312	15.01	0.991	QOff
Total:			41.329	8.742	100.00	6.897	

Operator: JBR Timebase: IC8 Sequence: 7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:00 AM**9 Water Blank**

Sample ID:	Water Blank	Injection Volume:	300.0
Vial Number:	0	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	Anions	Bandwidth:	n.a.
Quantif. Method:	EPA300A	Dilution Factor:	1.00
Recording Time:	9/1/2021 11:44	Sample Weight:	1.0000
Run Time (min):	12.80	Sample Amount:	1.0000

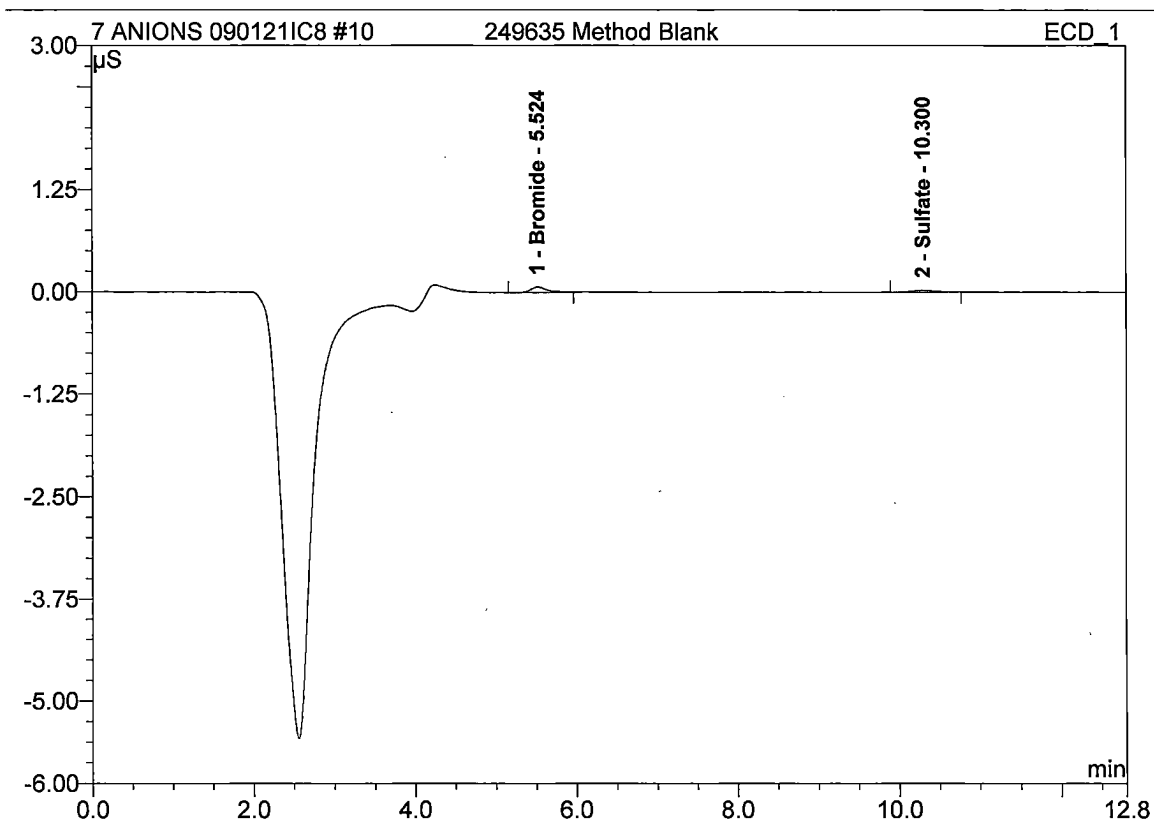


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Cal.Type
1	5.53	Bromide	0.076	0.018	69.75	0.023	P-P
2	10.30	Sulfate	0.023	0.008	30.25	0.005	P-P
Total:			0.099	0.026	100.00	0.028	

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:00 AM**10 249635 Method Blank***gl for NO₃, SO₄ PV₉
109-02-21*

Sample ID:	249635 Method Blank	Injection Volume:	300.0
Vial Number:	0	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	Anions	Bandwidth:	n.a.
Quantif. Method:	EPA300A	Dilution Factor:	20.00
Recording Time:	9/1/2021 12:04	Sample Weight:	1.0000
Run Time (min):	12.80	Sample Amount:	1.0000



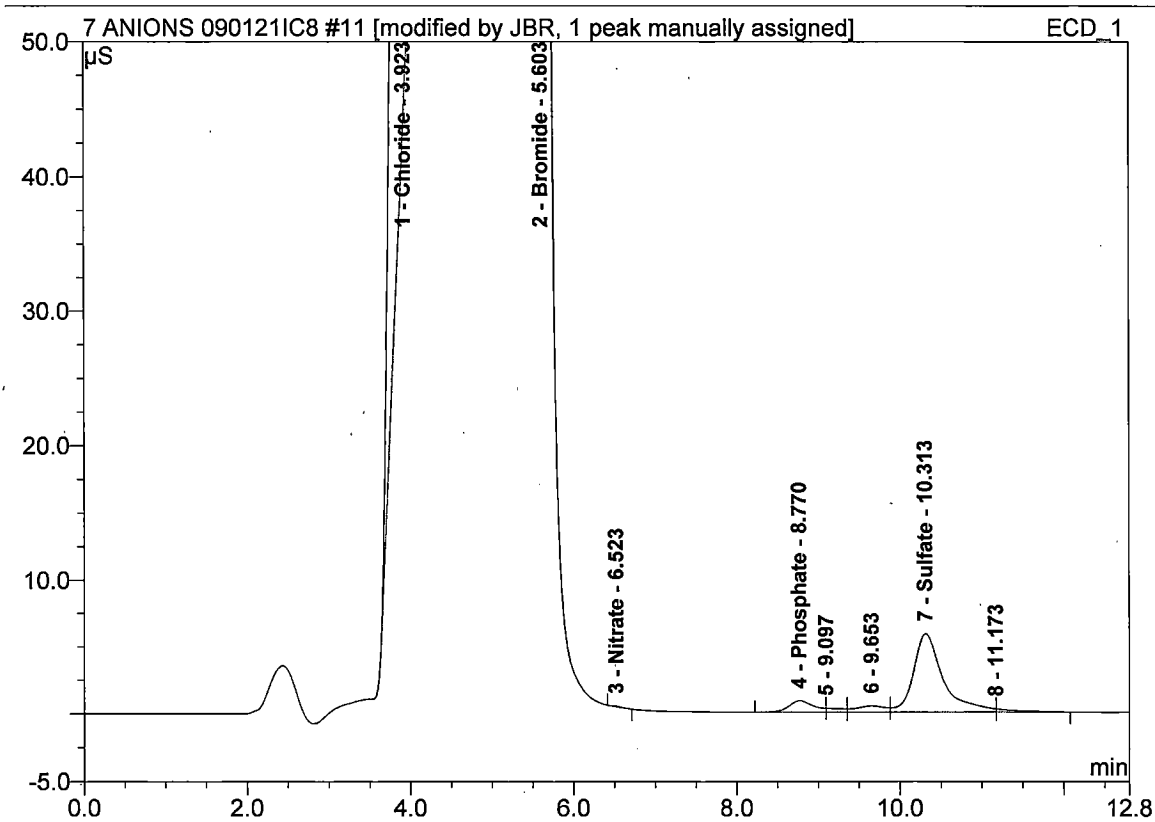
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount PPM	Cal.Type
1	5.52	Bromide	0.064	0.015	65.67	0.380	P-P
2	10.30	Sulfate	0.021	0.008	34.33	0.106	P-P
Total:			0.085	0.022	100.00	0.485	

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:06 AM**11 249635 OPP***we find NO₃, PO₄ & SO₄
10/1-02-21*

Sample ID: **249635 OPP**
 Vial Number: **0**
 Sample Type: **unknown**
 Control Program: **Anions**
 Quantif. Method: **EPA300A**
 Recording Time: **9/1/2021 12:20**
 Run Time (min): **12.80**

Injection Volume: **300.0**
 Channel: **ECD_1**
 Wavelength: **n.a.**
 Bandwidth: **n.a.**
 Dilution Factor: **20.00**
 Sample Weight: **1.0000**
 Sample Amount: **1.0000**

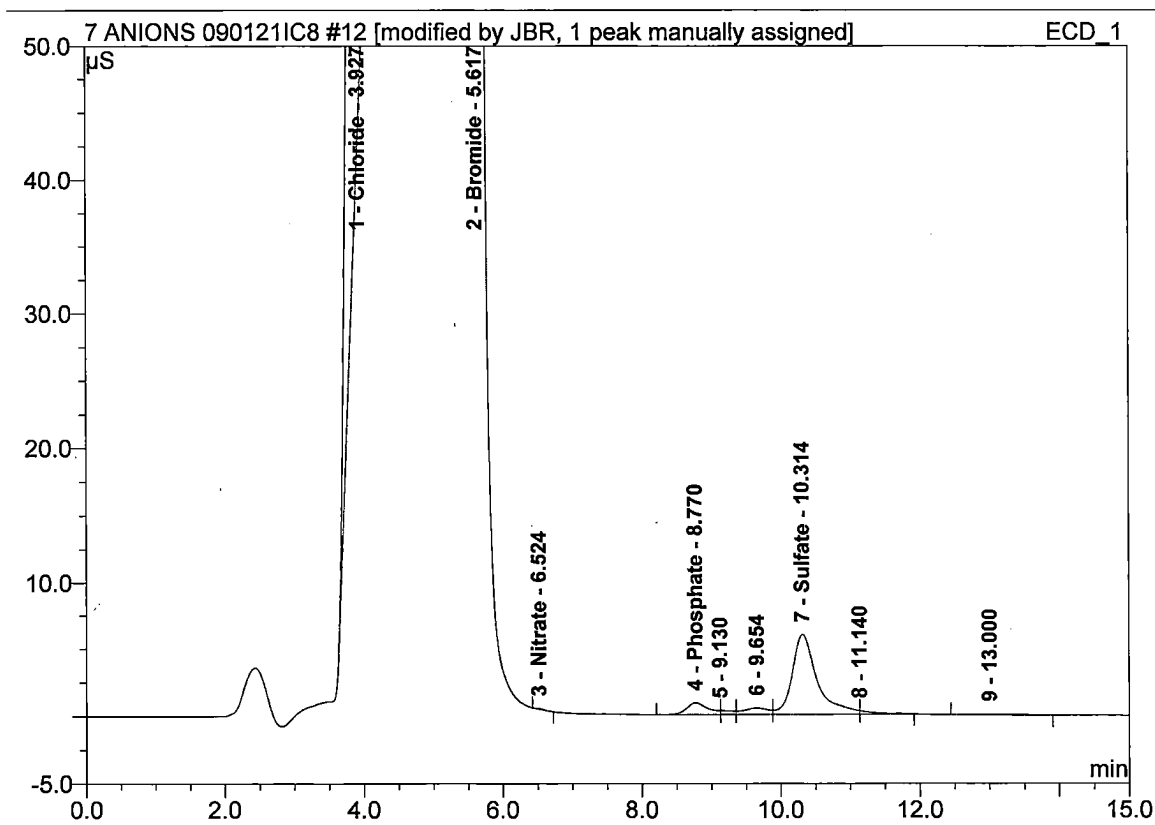


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Cal.Type
1	3.92	Chloride	42.783	12.522	21.91	118.708	QOff
2	5.60	Bromide	322.743	41.558	72.72	576.228	QOff
3	6.52	Nitrate	0.032	0.003	0.01	0.063	P-P
4	8.77	Phosphate	0.856	0.302	0.53	12.672	QOff
7	10.31	Sulfate	5.863	2.443	4.27	36.401	QOff
Total:			372.276	56.828	99.43	744.071	

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:06 AM**12 249635 OPP Dup***use for NO₃ PO₄ & SO₄
209-02-21*

Sample ID:	249635 OPP Dup	Injection Volume:	300.0
Vial Number:	0	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	AnionsL	Bandwidth:	n.a.
Quantif. Method:	EPA300A	Dilution Factor:	20.00
Recording Time:	9/1/2021 12:39	Sample Weight:	1.0000
Run Time (min):	15.00	Sample Amount:	1.0000



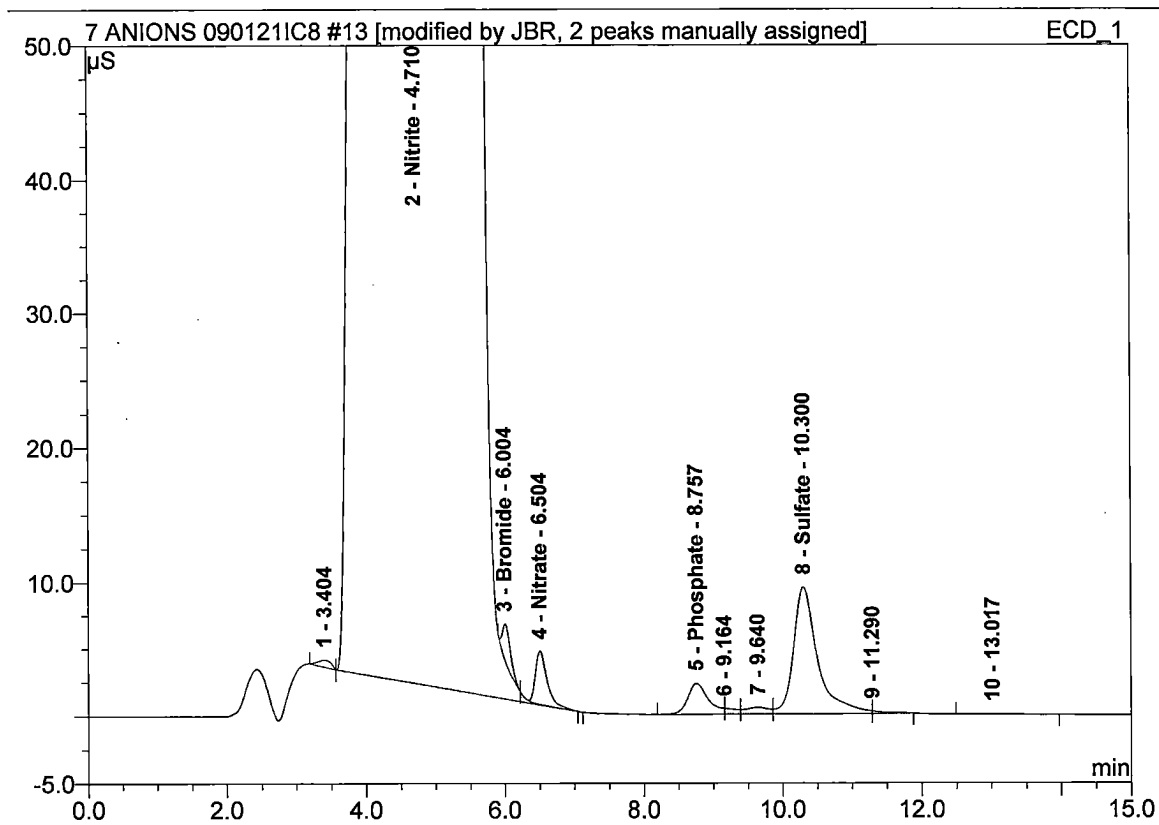
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Cal.Type
1	3.93	Chloride	42.344	12.640	21.54	119.607	QOff
2	5.62	Bromide	325.462	42.910	73.12	588.350	QOff
3	6.52	Nitrate	0.033	0.003	0.01	0.064	P-P
4	8.77	Phosphate	0.868	0.314	0.53	13.141	QOff
7	10.31	Sulfate	5.966	2.471	4.21	36.806	QOff
Total:			374.673	58.338	99.41	757.968	

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:07 AM**13 249635 OPP Low MS***wr for NO₃, PO₄ & SO₄
209-02-21*

Sample ID: **249635 OPP Low MS**
 Vial Number: **0**
 Sample Type: **unknown**
 Control Program: **AnionsL**
 Quantif. Method: **EPA300A**
 Recording Time: **9/1/2021 12:56**
 Run Time (min): **15.00**

Injection Volume: **300.0**
 Channel: **ECD_1**
 Wavelength: **n.a.**
 Bandwidth: **n.a.**
 Dilution Factor: **20.20**
 Sample Weight: **1.0000**
 Sample Amount: **1.0000**

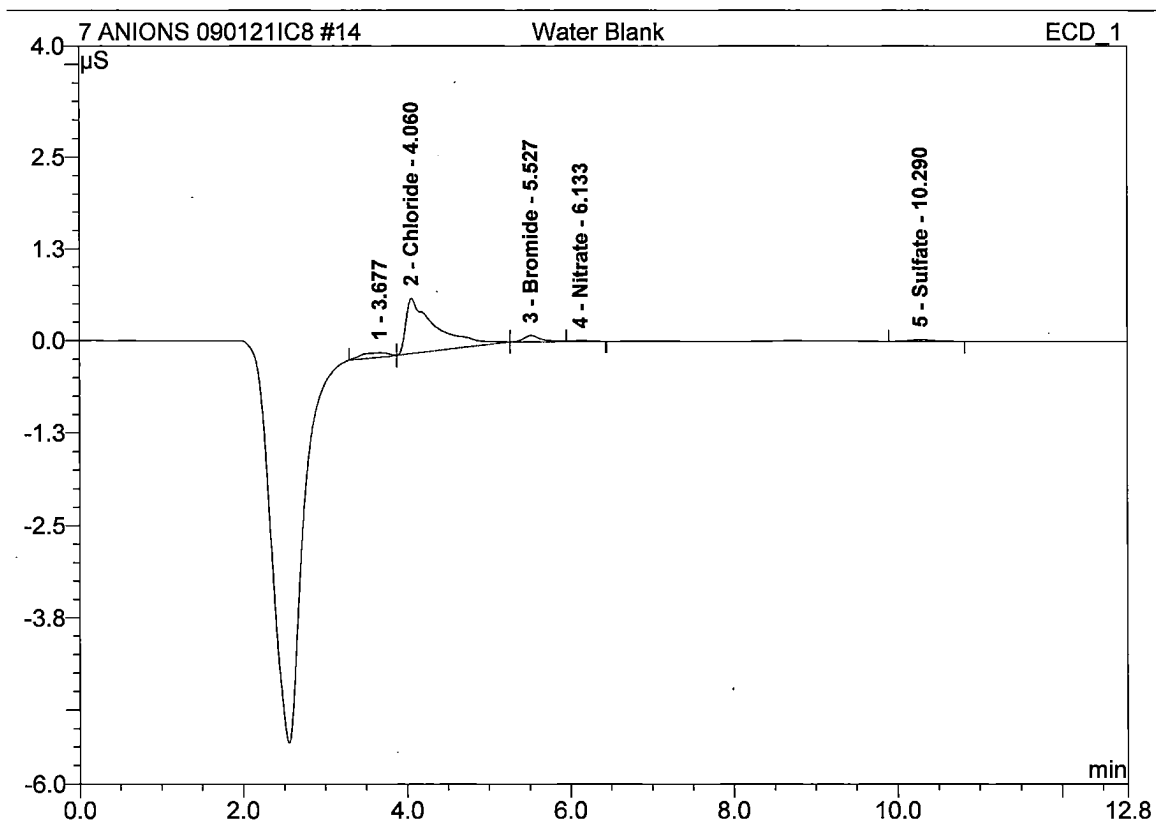


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Cal.Type
2	4.71	Nitrite	651.935	762.947	99.19	3074.896	QOff
3	6.00	Bromide	2.762	0.378	0.05	10.898	QOff
4	6.50	Nitrate	3.994	0.777	0.10	16.437	QOff
5	8.76	Phosphate	2.305	0.791	0.10	32.458	QOff
8	10.30	Sulfate	9.486	3.826	0.50	56.347	QOff
Total:			670.482	768.719	99.94	3191.037	

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:08 AM**14 Water Blank***Change RL not used
10/9/02-21*

Sample ID:	Water Blank	Injection Volume:	300.0
Vial Number:	0	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	Anions	Bandwidth:	n.a.
Quantif. Method:	EPA300A	Dilution Factor:	1.00
Recording Time:	9/1/2021 13:13	Sample Weight:	1.0000
Run Time (min):	12.80	Sample Amount:	1.0000

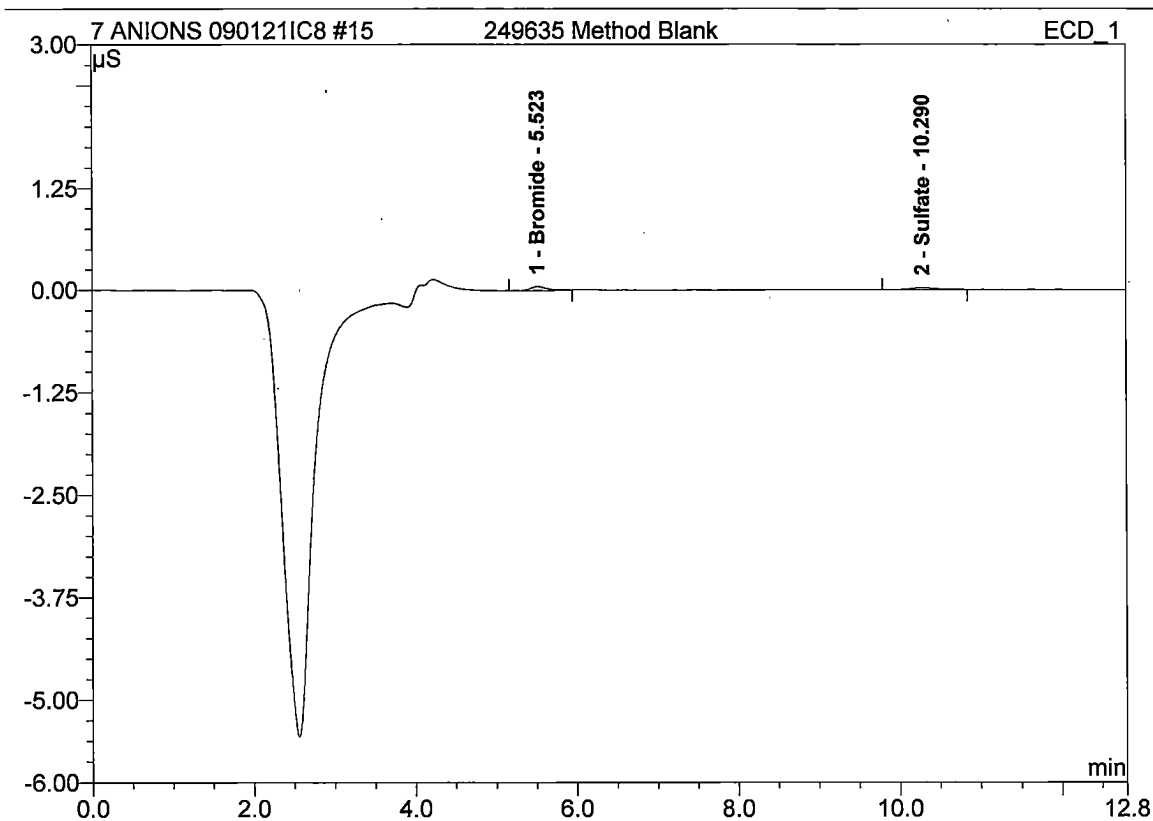


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Cal.Type
2	4.06	Chloride	0.749	0.313	85.00	0.197	QOff
3	5.53	Bromide	0.084	0.021	5.66	0.019	QOff
4	6.13	Nitrate	0.012	0.002	0.62	0.004	QOff
5	10.29	Sulfate	0.023	0.008	2.13	-0.012	QOff
Total:			0.867	0.344	93.41	0.207	

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:09 AM**15 249635 Method Blank***we for F, Cl & Br 209.02-21*
209.02-21 (D)

Sample ID:	249635 Method Blank	Injection Volume:	300.0
Vial Number:	0	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	Anions	Bandwidth:	n.a.
Quantif. Method:	EPA300A	Dilution Factor:	400.00
Recording Time:	9/1/2021 13:29	Sample Weight:	1.0000
Run Time (min):	12.80	Sample Amount:	1.0000



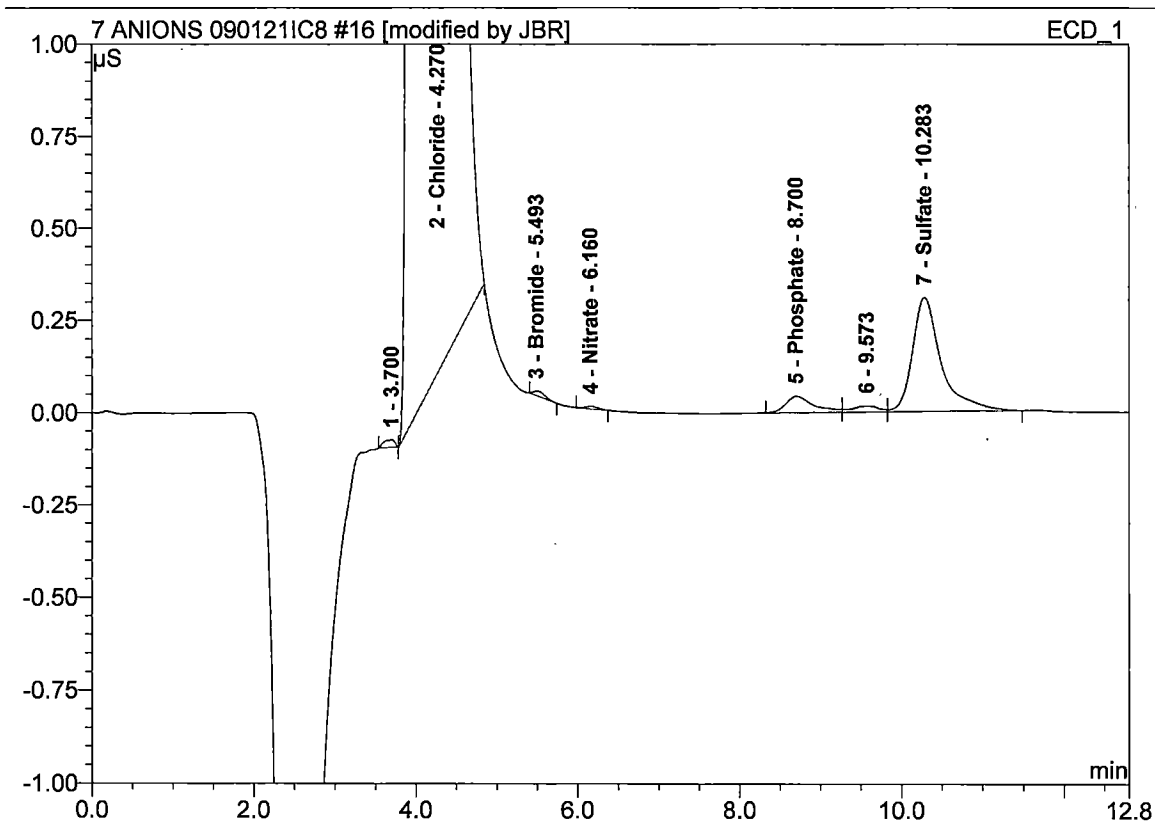
No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount PPM	Cal.Type
1	5.52	Bromide	0.049	0.011	58.02	5.772	P-P
2	10.29	Sulfate	0.022	0.008	41.98	2.224	P-P
Total:			0.071	0.019	100.00	7.996	

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:12 AM**16 249635 OPP***use for F&B data
209-02-21*

Sample ID: **249635 OPP**
 Vial Number: **0**
 Sample Type: **unknown**
 Control Program: **Anions**
 Quantif. Method: **EPA300A**
 Recording Time: **9/1/2021 13:44**
 Run Time (min): **12.80**

Injection Volume: **300.0**
 Channel: **ECD_1**
 Wavelength: **n.a.**
 Bandwidth: **n.a.**
 Dilution Factor: **400.00**
 Sample Weight: **1.0000**
 Sample Amount: **1.0000**

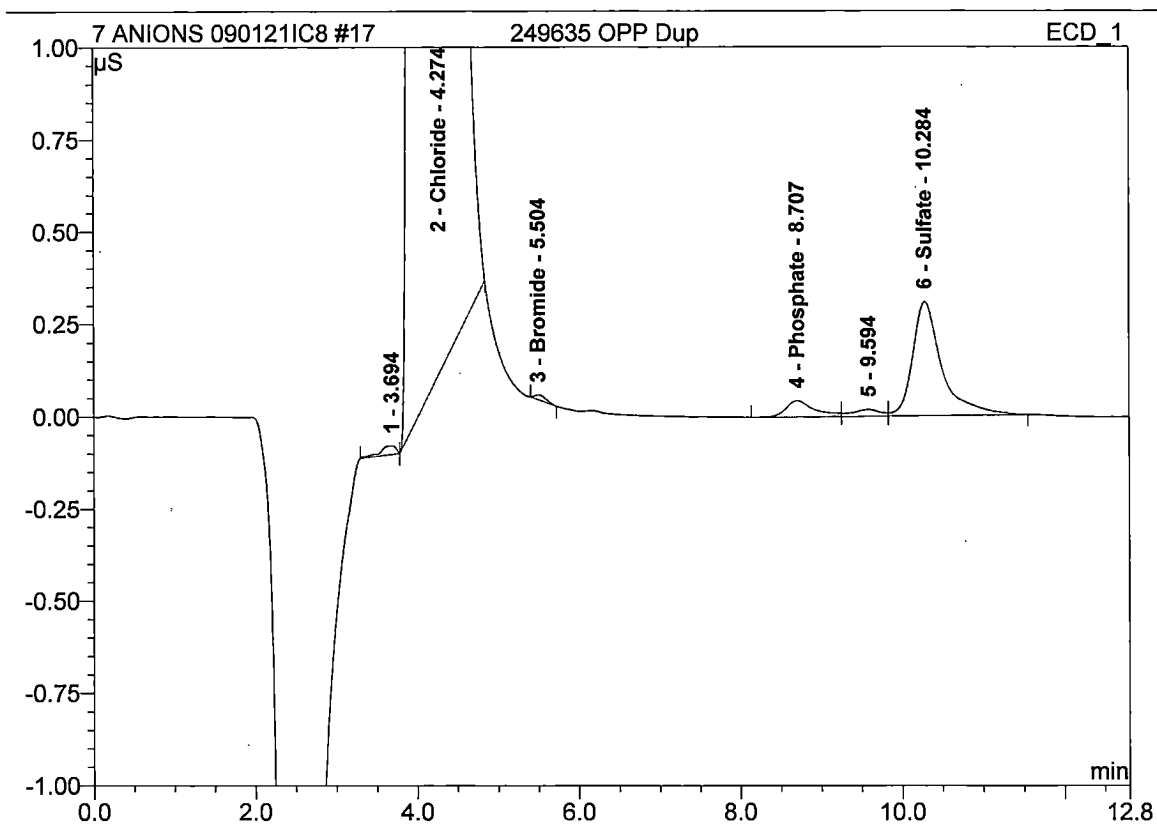


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Cal.Type
2	4.27	Chloride	108.289	33.741	99.54	5025.374	QOff
3	5.49	Bromide	0.013	0.002	0.01	1.142	P-P
4	6.16	Nitrate	0.007	0.001	0.00	0.491	P-P
5	8.70	Phosphate	0.044	0.018	0.05	17.835	QOff
7	10.28	Sulfate	0.308	0.126	0.37	32.572	QOff
Total:			108.660	33.888	99.97	5077.414	

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:12 AM**17 249635 OPP Dup***use for F & Br Data
209-02-21*

Sample ID:	249635 OPP Dup	Injection Volume:	300.0
Vial Number:	0	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	Anions	Bandwidth:	n.a.
Quantif. Method:	EPA300A	Dilution Factor:	400.00
Recording Time:	9/1/2021 13:59	Sample Weight:	1.0000
Run Time (min):	12.80	Sample Amount:	1.0000



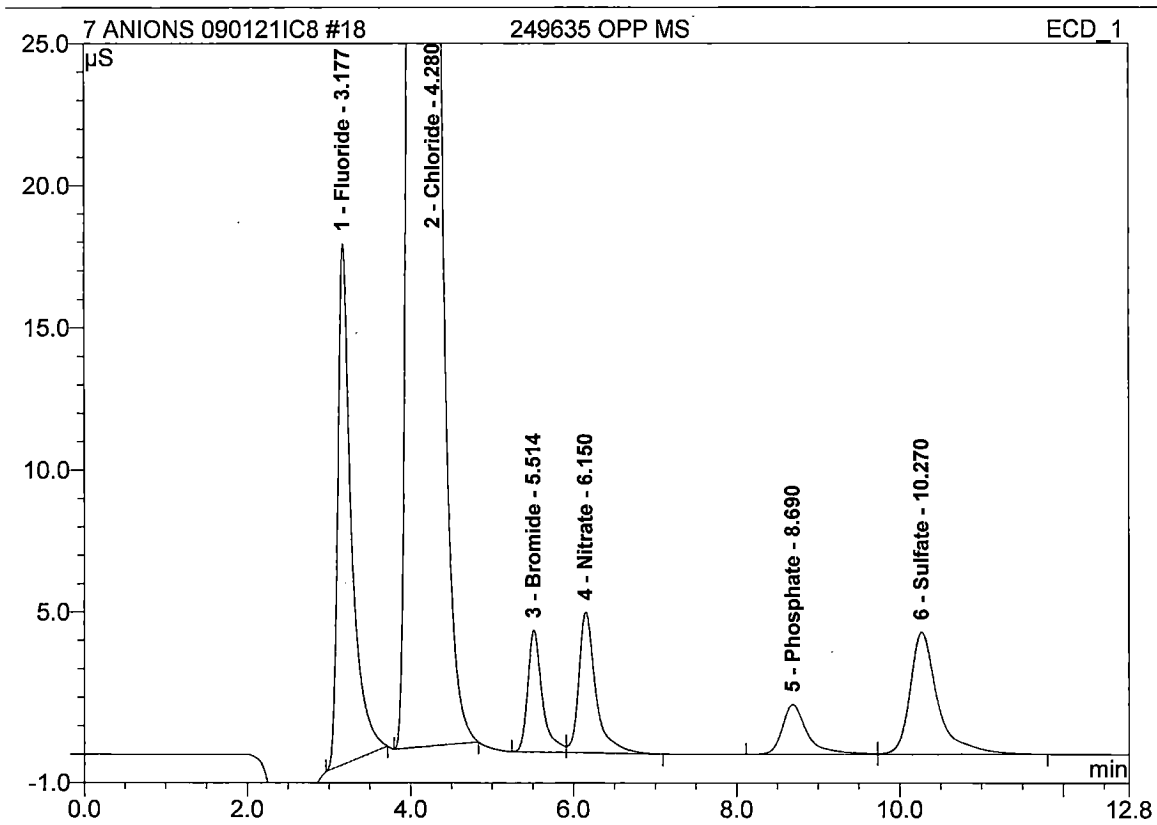
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Cal.Type
2	4.27	Chloride	108.852	34.294	99.53	5083.792	QOff
3	5.50	Bromide	0.013	0.002	0.01	1.138	P-P
4	8.71	Phosphate	0.044	0.018	0.05	18.250	QOff
6	10.28	Sulfate	0.308	0.128	0.37	33.241	QOff
Total:			109.216	34.443	99.96	5136.421	

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:14 AM**18 249635 OPP MS***Report all spikes except Cl (off scale)*
09-02-21

Sample ID: **249635 OPP MS**
 Vial Number: **0**
 Sample Type: **unknown**
 Control Program: **Anions**
 Quantif. Method: **EPA300A**
 Recording Time: **9/1/2021 14:14**
 Run Time (min): **12.80**

Injection Volume: **300.0**
 Channel: **ECD_1**
 Wavelength: **n.a.**
 Bandwidth: **n.a.**
 Dilution Factor: **400.00**
 Sample Weight: **1.0000**
 Sample Amount: **1.0000**



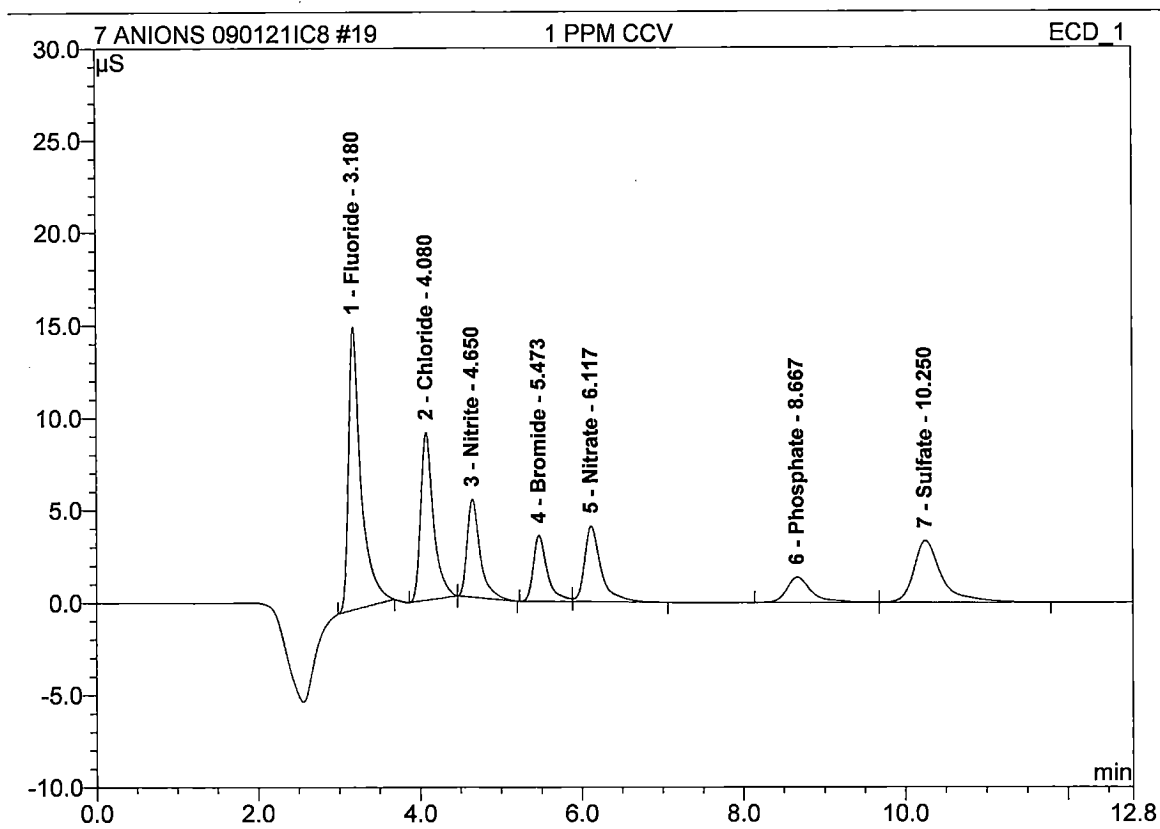
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount PPM	Cal.Type
1	3.18	Fluoride	18.302	3.529	7.86	501.877	QOff
2	4.28	Chloride	116.120	36.939	82.29	5357.685	QOff
3	5.51	Bromide	4.283	0.892	1.99	502.291	QOff
4	6.15	Nitrate	4.951	1.193	2.66	491.118	QOff
5	8.69	Phosphate	1.757	0.632	1.41	518.022	QOff
6	10.27	Sulfate	4.301	1.702	3.79	512.488	QOff
Total:			149.713	44.887	100.00	7883.482	

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:14 AM**19 1 PPM CCV****Exp 09-30-21**

Sample ID: **1 ppm 2280-0830-079-2**
 Vial Number: **0**
 Sample Type: **validate**
 Control Program: **Anions**
 Quantif. Method: **EPA300A**
 Recording Time: **9/1/2021 14:29**
 Run Time (min): **12.80**

Injection Volume: **300.0**
 Channel: **ECD_1**
 Wavelength: **n.a.**
 Bandwidth: **n.a.**
 Dilution Factor: **1.00**
 Sample Weight: **1.0000**
 Sample Amount: **1.0000**



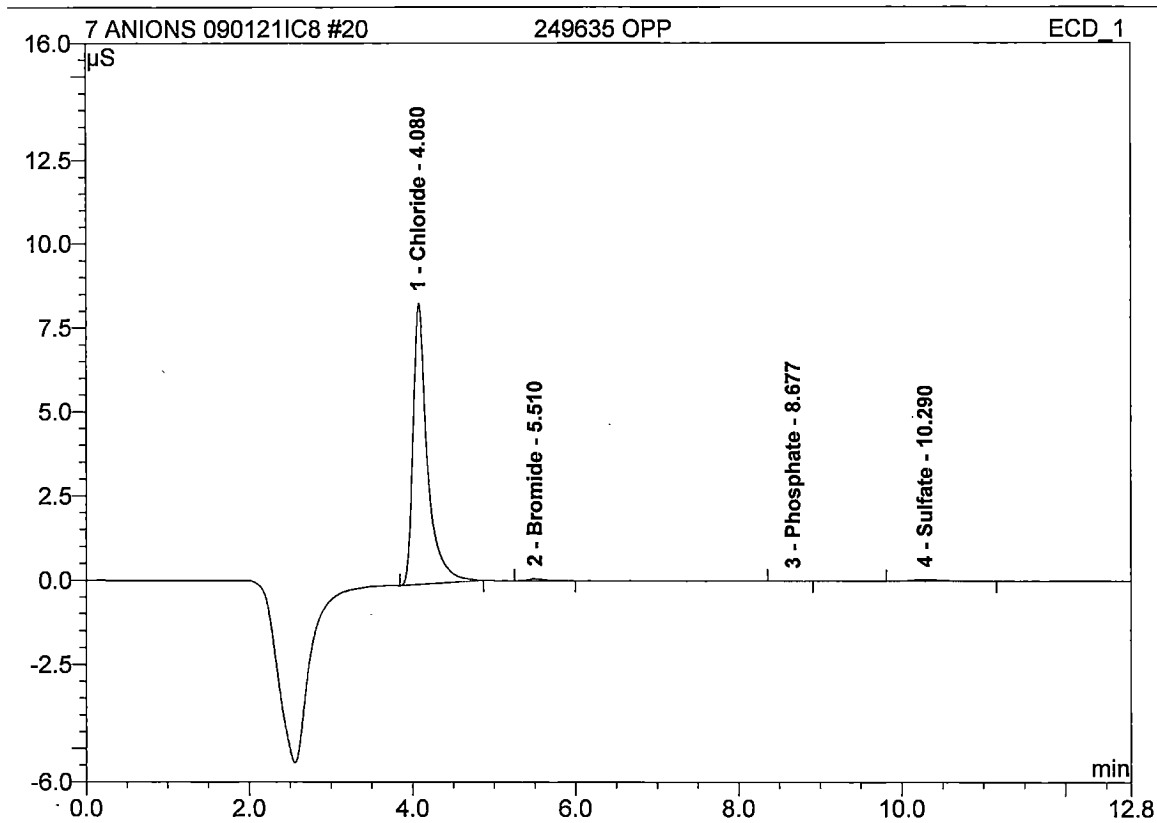
No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount PPM	Cal.Type
1	3.18	Fluoride	15.306	2.743	30.94	0.983	QOff
2	4.08	Chloride	9.072	1.659	18.71	0.989	QOff
3	4.65	Nitrite	5.287	0.985	11.11	0.996	QOff
4	5.47	Bromide	3.550	0.714	8.05	1.011	QOff
5	6.12	Nitrate	4.084	0.962	10.85	1.000	QOff
6	8.67	Phosphate	1.361	0.486	5.48	1.004	QOff
7	10.25	Sulfate	3.316	1.316	14.85	0.994	QOff
Total:			41.977	8.863	100.00	6.978	

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:14 AM**20 249635 OPP***Cl only
moq-0221*

Sample ID: **249635 OPP**
 Vial Number: **0**
 Sample Type: **unknown**
 Control Program: **Anions**
 Quantif. Method: **EPA300A**
 Recording Time: **9/1/2021 14:45**
 Run Time (min): **12.80**

Injection Volume: **300.0**
 Channel: **ECD_1**
 Wavelength: **n.a.**
 Bandwidth: **n.a.**
 Dilution Factor: **6000.00**
 Sample Weight: **1.0000**
 Sample Amount: **1.0000**

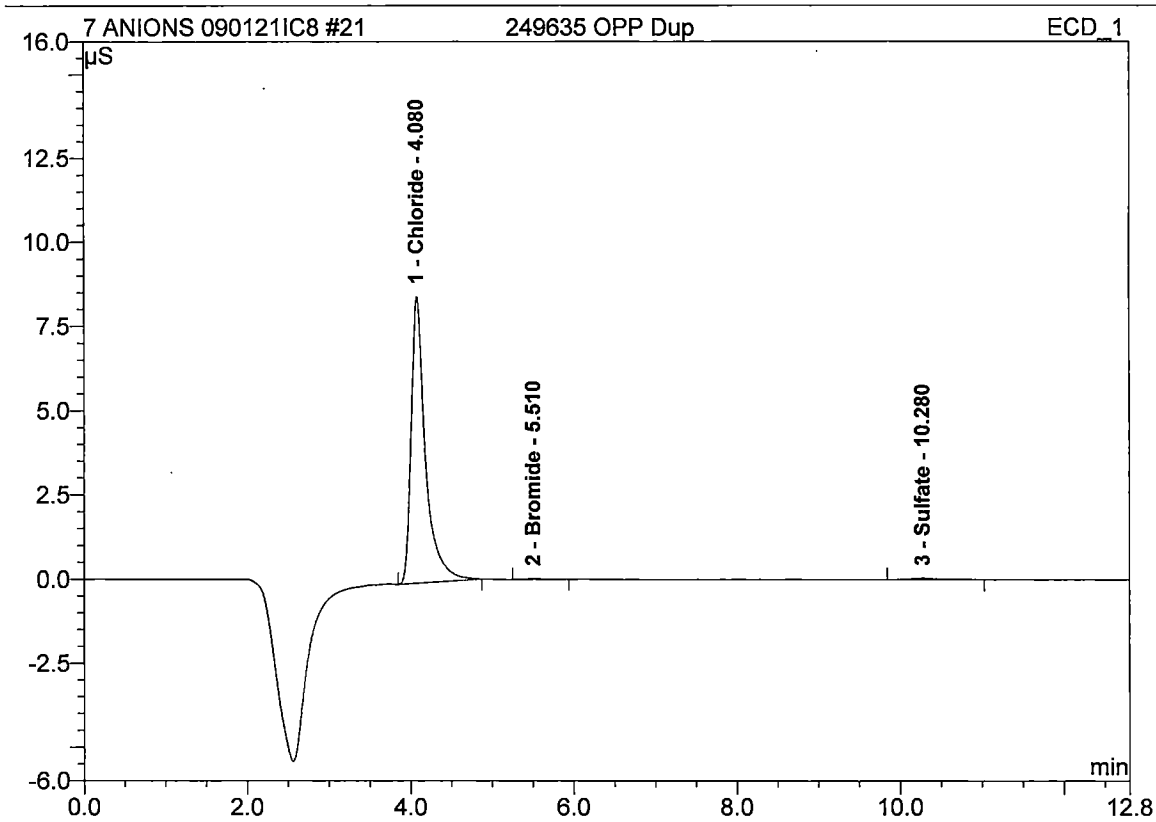


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount PPM	Cal.Type
1	4.08	Chloride	8.357	1.687	97.94	6031.603	QOff
2	5.51	Bromide	0.059	0.014	0.80	50.386	QOff
3	8.68	Phosphate	0.005	0.001	0.08	62.757	QOff
4	10.29	Sulfate	0.051	0.020	1.19	-11.570	QOff
Total:			8.471	1.723	100.00	6133.176	

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:14 AM**21 249635 OPP Dup***cl only*
NOA-02-21

Sample ID:	249635 OPP Dup	Injection Volume:	300.0
Vial Number:	0	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	Anions	Bandwidth:	n.a.
Quantif. Method:	EPA300A	Dilution Factor:	6000.00
Recording Time:	9/1/2021 15:00	Sample Weight:	1.0000
Run Time (min):	12.80	Sample Amount:	1.0000

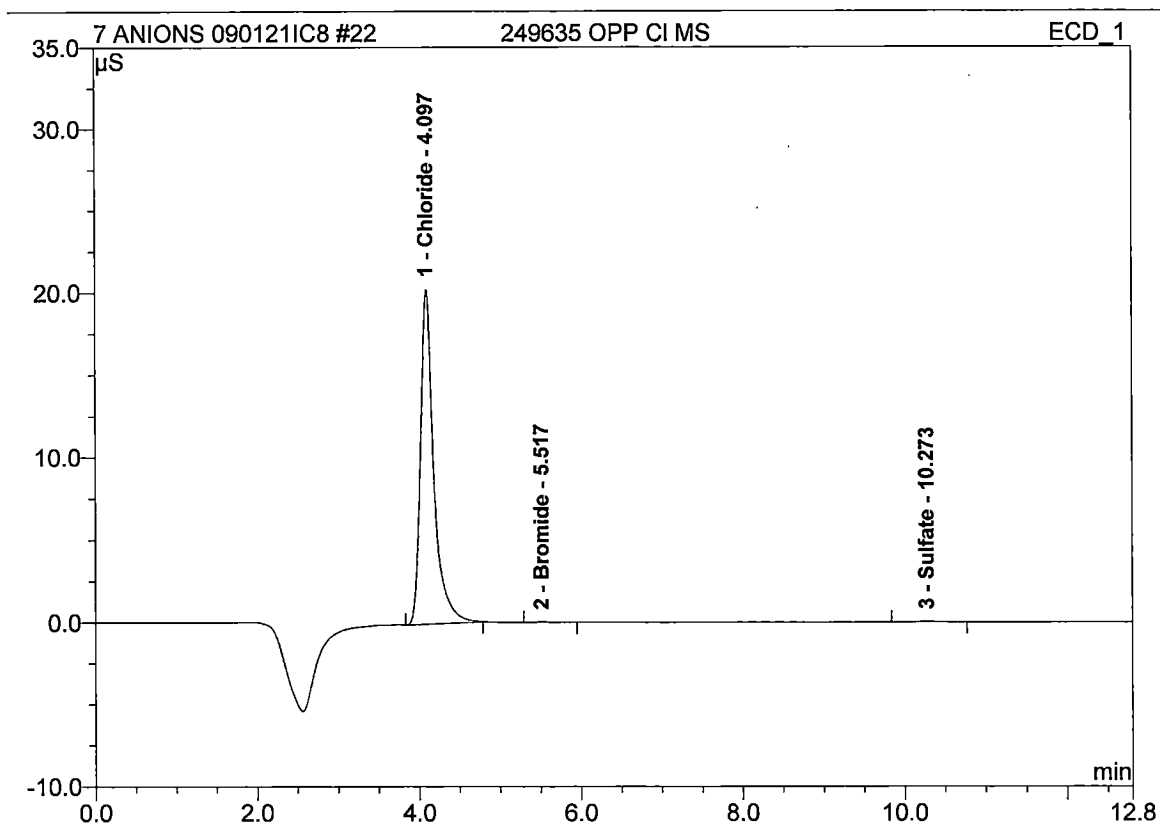


No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount PPM	Cal.Type
1	4.08	Chloride	8.502	1.718	98.70	6137.665	QOff
2	5.51	Bromide	0.030	0.007	0.38	-13.161	QOff
3	10.28	Sulfate	0.042	0.016	0.92	-32.249	QOff
Total:			8.574	1.741	100.00	6092.256	

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:14 AM**22 249635 OPP CI MS***cl only
noq-02-21*

Sample ID:	249635 OPP CI MS	Injection Volume:	300.0
Vial Number:	0	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	Anions	Bandwidth:	n.a.
Quantif. Method:	EPA300A	Dilution Factor:	6000.00
Recording Time:	9/1/2021 15:15	Sample Weight:	1.0000
Run Time (min):	12.80	Sample Amount:	1.0000

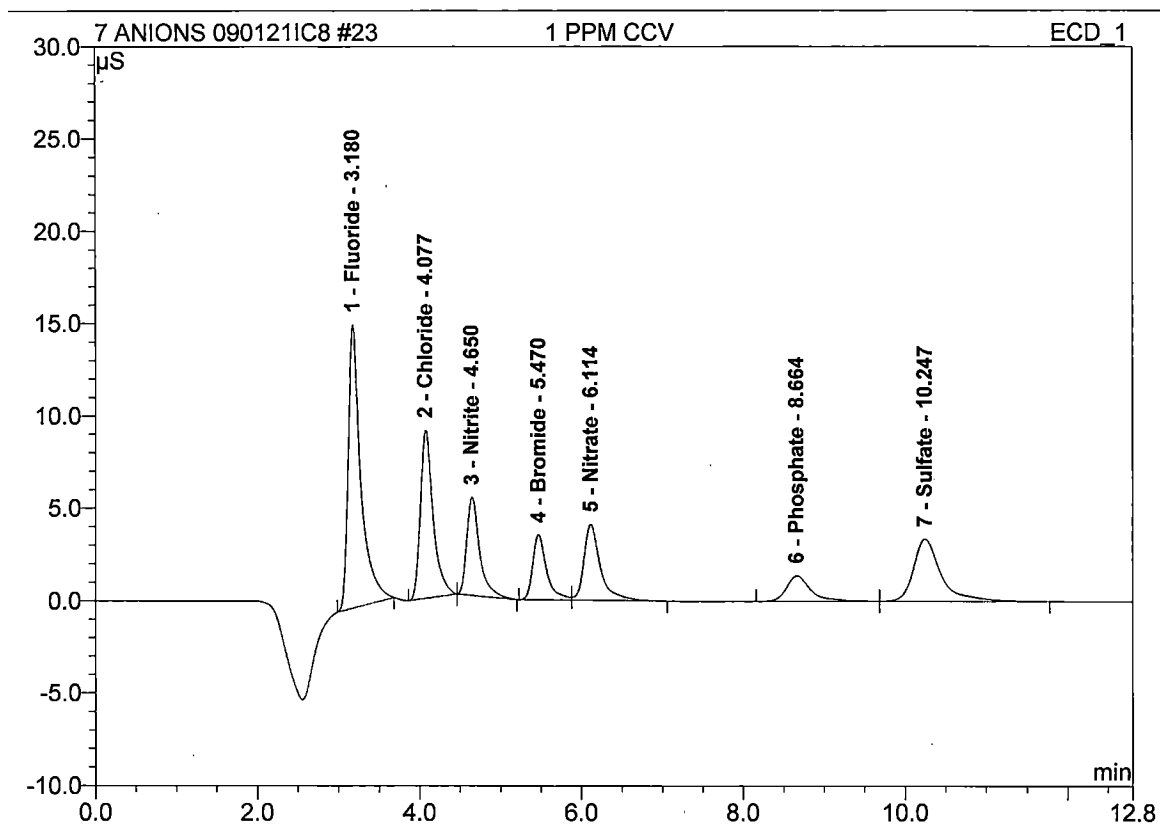


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount PPM	Cal.Type
1	4.10	Chloride	20.303	3.849	99.42	12969.045	QOff
2	5.52	Bromide	0.040	0.009	0.23	6.751	QOff
3	10.27	Sulfate	0.039	0.014	0.35	-44.208	QOff
Total:			20.383	3.872	100.00	12931.588	

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:14 AM**23 1 PPM CCV****Exp 09-30-21**

Sample ID:	1 ppm 2280-0830-079-2	Injection Volume:	300.0
Vial Number:	0	Channel:	ECD_1
Sample Type:	validate	Wavelength:	n.a.
Control Program:	Anions	Bandwidth:	n.a.
Quantif. Method:	EPA300A	Dilution Factor:	1.00
Recording Time:	9/1/2021 15:30	Sample Weight:	1.0000
Run Time (min):	12.80	Sample Amount:	1.0000

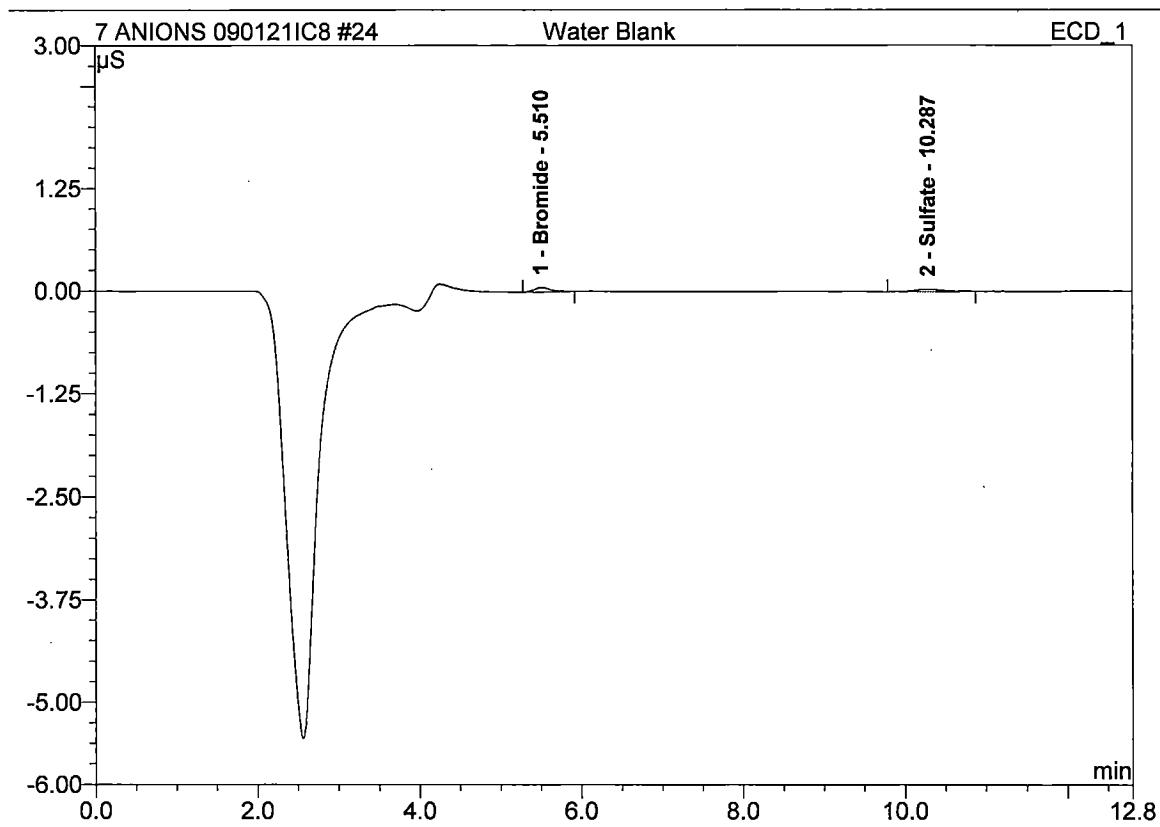


No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount PPM	Cal.Type
1	3.18	Fluoride	15.321	2.744	30.97	0.983	QOff
2	4.08	Chloride	9.079	1.653	18.66	0.986	QOff
3	4.65	Nitrite	5.295	0.986	11.13	0.998	QOff
4	5.47	Bromide	3.507	0.702	7.92	0.995	QOff
5	6.11	Nitrate	4.086	0.962	10.86	0.999	QOff
6	8.66	Phosphate	1.367	0.486	5.49	1.005	QOff
7	10.25	Sulfate	3.352	1.325	14.96	1.001	QOff
Total:			42.007	8.858	100.00	6.968	

Operator: JBR Timebase: IC8 Sequence: 7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:15 AM**24 Water Blank**

Sample ID:	Water Blank	Injection Volume:	300.0
Vial Number:	0	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	Anions	Bandwidth:	n.a.
Quantif. Method:	EPA300A	Dilution Factor:	1.00
Recording Time:	9/1/2021 15:45	Sample Weight:	1.0000
Run Time (min):	12.80	Sample Amount:	1.0000

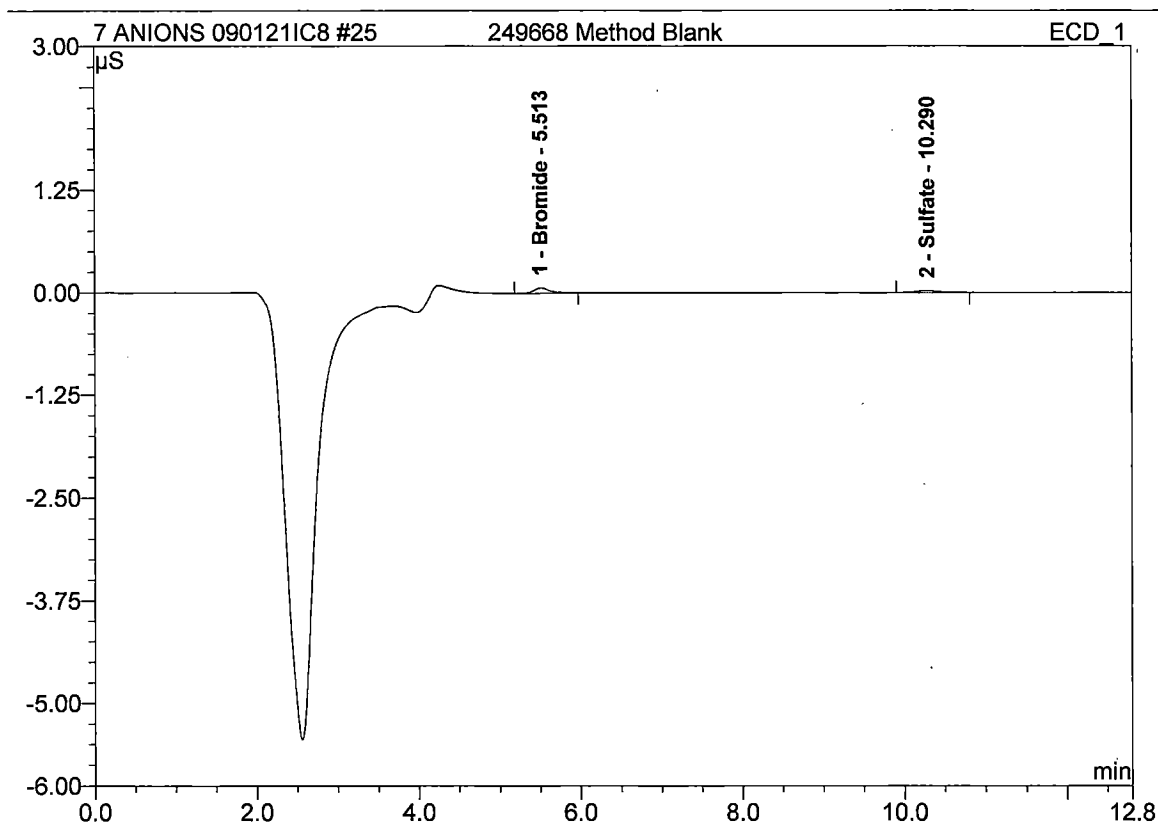


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Cal.Type
1	5.51	Bromide	0.052	0.012	55.92	0.005	QOff
2	10.29	Sulfate	0.024	0.009	44.08	-0.011	QOff
Total:			0.076	0.021	100.00	-0.006	

Operator: JBR Timebase: IC8 Sequence: 7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:15 AM**25 249668 Method Blank**

Sample ID:	249668 Method Blank	Injection Volume:	300.0
Vial Number:	0	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	Anions	Bandwidth:	n.a.
Quantif. Method:	EPA300A	Dilution Factor:	120000.00
Recording Time:	9/1/2021 16:01	Sample Weight:	1.0000
Run Time (min):	12.80	Sample Amount:	1.0000

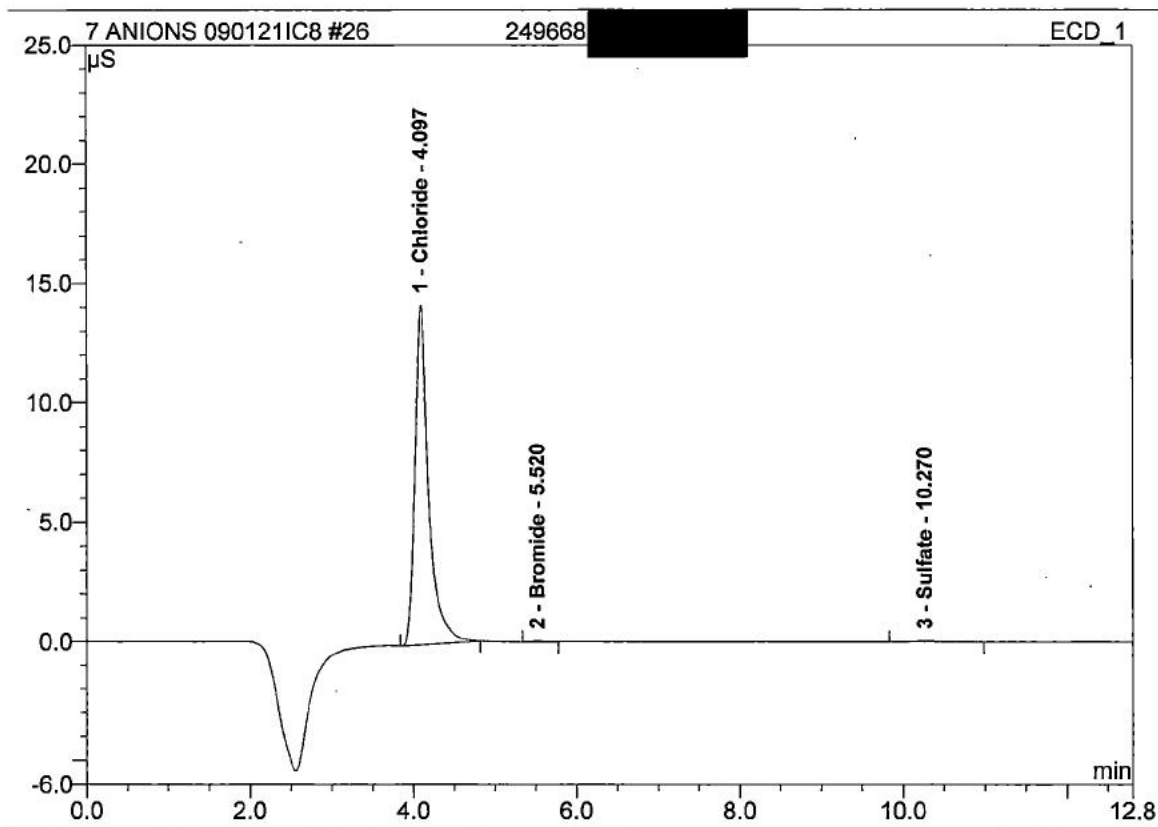


No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount PPM	Cal. Type
1	5.51	Bromide	0.063	0.014	64.74	1124.905	QOff
2	10.29	Sulfate	0.023	0.008	35.26	-1425.190	QOff
Total:			0.085	0.022	100.00	-300.285	

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:15 AM**26 249668**

Sample ID:	249668	Injection Volume:	300.0
Vial Number:	0	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	Anions	Bandwidth:	n.a.
Quantif. Method:	EPA300A	Dilution Factor:	120000.00
Recording Time:	9/1/2021 16:16	Sample Weight:	1.0000
Run Time (min):	12.80	Sample Amount:	1.0000



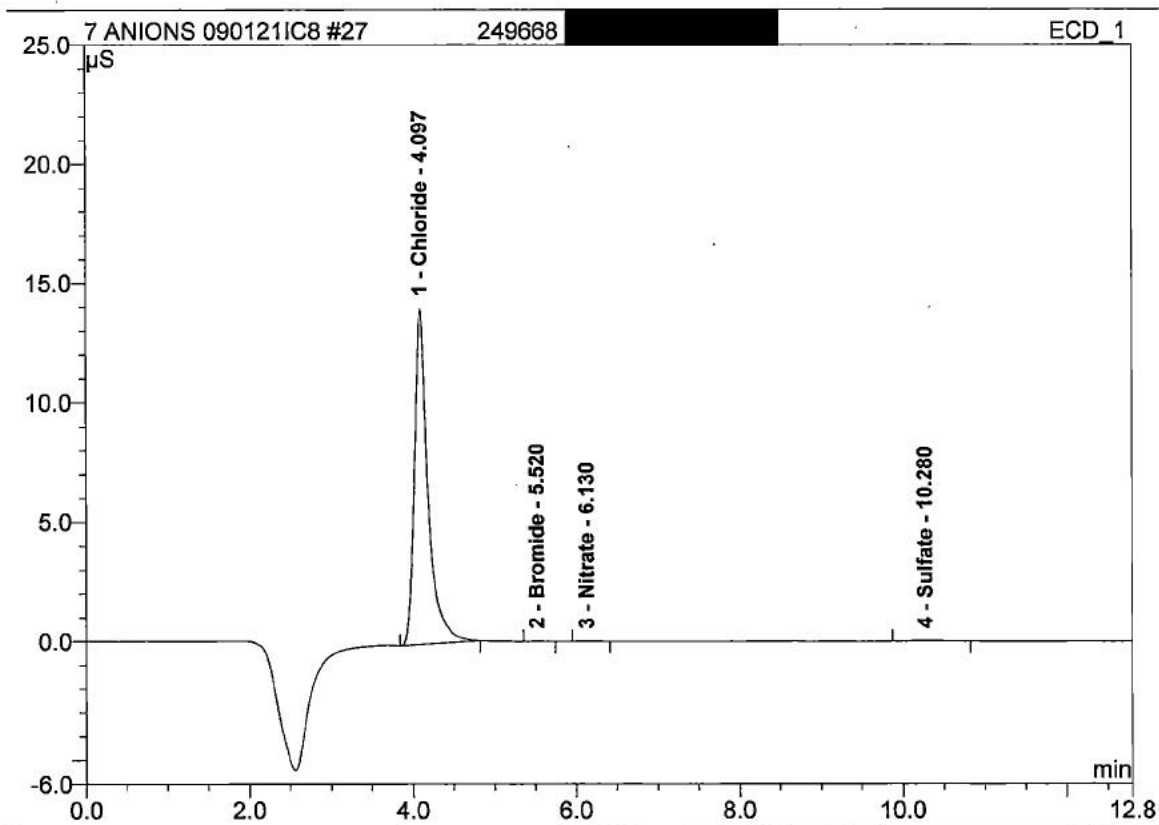
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount PPM	Cal.Type
1	4.10	Chloride	14.215	2.753	99.32	190866.138	QOff
2	5.52	Bromide	0.034	0.006	0.22	-341.590	QOff
3	10.27	Sulfate	0.033	0.013	0.45	-974.663	QOff
Total:			14.281	2.771	100.00	189549.886	

This page has been redacted to
protect client confidentiality.
The original data has not been obscured

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:15 AM**27 249668**

Sample ID:	249668	Injection Volume:	300.0
Vial Number:	0	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	Anions	Bandwidth:	n.a.
Quantif. Method:	EPA300A	Dilution Factor:	120000.00
Recording Time:	9/1/2021 16:31	Sample Weight:	1.0000
Run Time (min):	12.80	Sample Amount:	1.0000



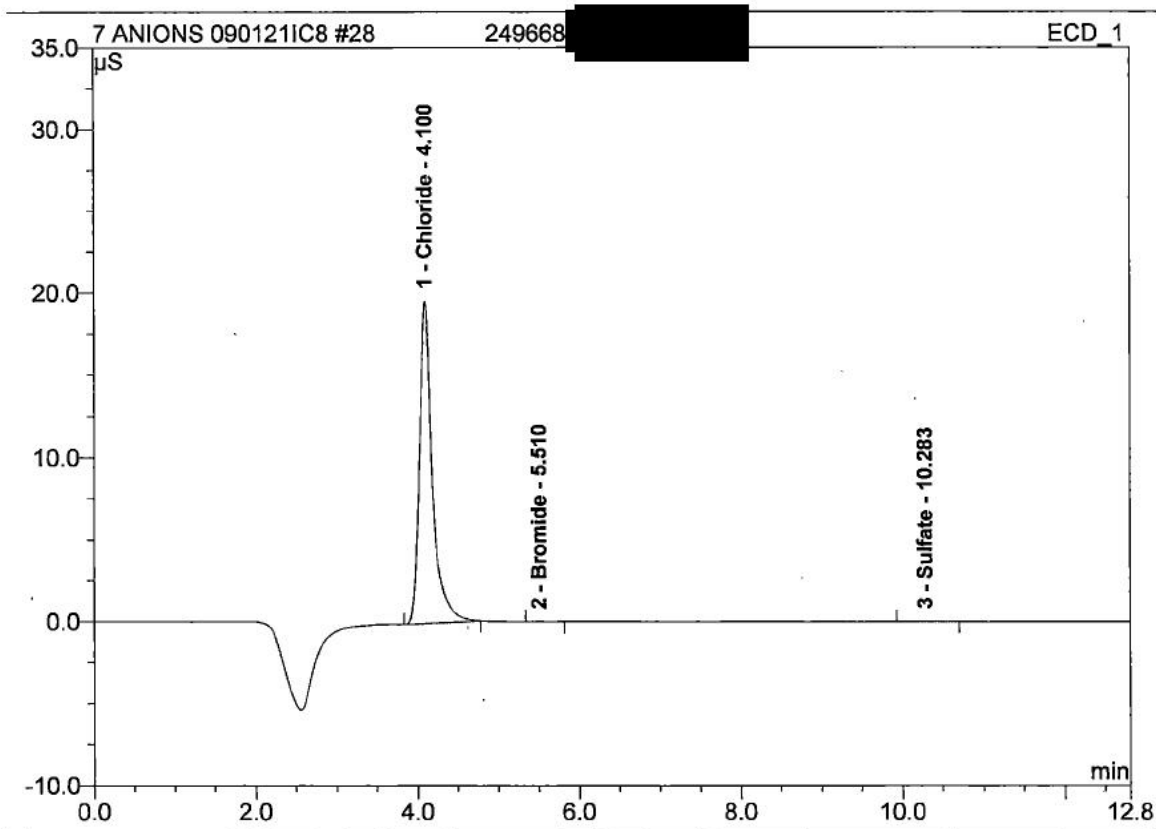
No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount PPM	Cal.Type
1	4.10	Chloride	14.079	2.724	99.34	189021.385	QOff
2	5.52	Bromide	0.024	0.004	0.15	-716.554	QOff
3	6.13	Nitrate	0.009	0.002	0.06	355.525	QOff
4	10.28	Sulfate	0.035	0.012	0.45	-991.982	QOff
Total:			14.147	2.742	100.00	187668.375	

This page has been redacted to
protect client confidentiality.
The original data has not been obscured

Operator: JBR Timebase: IC8 Sequence: 7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:15 AM**28 249668**

Sample ID:	249668	Injection Volume:	300.0
Vial Number:	0	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	Anions	Bandwidth:	n.a.
Quantif. Method:	EPA300A	Dilution Factor:	200000.00
Recording Time:	9/1/2021 16:46	Sample Weight:	1.0000
Run Time (min):	12.80	Sample Amount:	1.0000



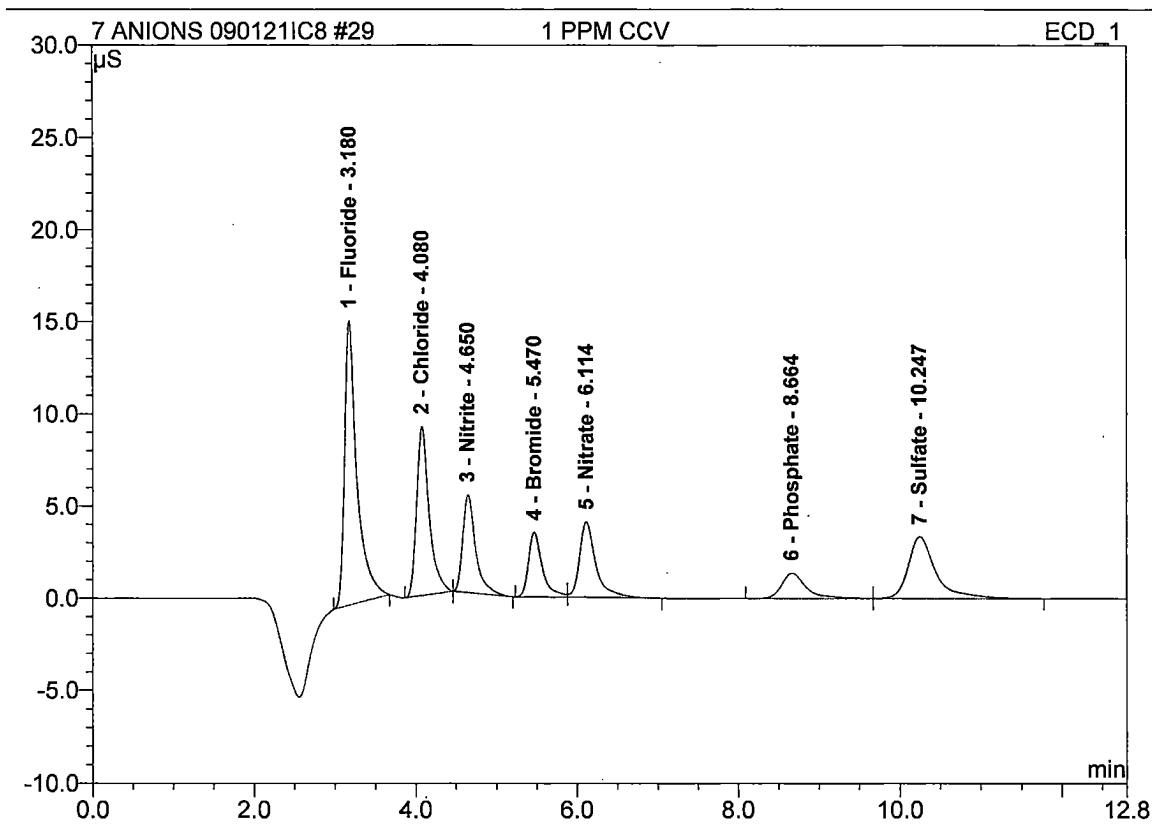
No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount PPM	Cal.Type
1	4.10	Chloride	19.613	3.630	99.67	409937.283	QOff
2	5.51	Bromide	0.019	0.003	0.10	-1371.846	QOff
3	10.28	Sulfate	0.026	0.008	0.23	-2279.585	QOff
Total:			19.658	3.642	100.00	406285.852	

This page has been redacted to
protect client confidentiality.
The original data has not been obscured

Operator:JBR Timebase:IC8 Sequence:7 ANIONS 090121IC8

Page 1-1
9/2/2021 11:15 AM**29 1 PPM CCV****Exp 09-30-21**

Sample ID:	1 ppm 2280-0830-079-2	Injection Volume:	300.0
Vial Number:	0	Channel:	ECD_1
Sample Type:	validate	Wavelength:	n.a.
Control Program:	Anions	Bandwidth:	n.a.
Quantif. Method:	EPA300A	Dilution Factor:	1.00
Recording Time:	9/1/2021 17:02	Sample Weight:	1.0000
Run Time (min):	12.80	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount PPM	Cal.Type
1	3.18	Fluoride	15.420	2.740	30.96	0.982	QOff
2	4.08	Chloride	9.161	1.654	18.69	0.987	QOff
3	4.65	Nitrite	5.307	0.987	11.15	0.998	QOff
4	5.47	Bromide	3.510	0.701	7.92	0.994	QOff
5	6.11	Nitrate	4.093	0.962	10.87	1.000	QOff
6	8.66	Phosphate	1.371	0.487	5.51	1.008	QOff
7	10.25	Sulfate	3.339	1.320	14.91	0.997	QOff
Total:			42.200	8.851	100.00	6.965	

Preparer: S. Johnson Date 08-31-21

Expires: 10-31-21

Reviewer: DPC Date 08-31-21

Solvent: ☐ Organic-free E-Pure water ☒ Nanopure water Other: ☒ N/A

Standard: 1 ppm 6 Carbons TCU (Cl: 0.1 ppm) Preparer: J. Richman Date 08-31-21

ID #: 2280-0831-080-2 Expires: 09-30-21 Reviewer: DDC Date 08-31-21

Solvent: ☐ Organic-free E-Pure water ☒ Nanopure water Other: ☒ N/A

Lot no.: ☐ N/A W1 Final Vol.: ☐ N/A 50.0 mL Measured by: B-50 1g/mL

Standard: AS 14 Element Preparer: J. Dickman Date: 09-01-24

ID #: 2280-0901-080-3 Expires: 12-01-21 Reviewer: DDC Date 09-02-21

Solvent: ☐ Organic-free E-Pure water ☒ Nanopure water Other: ☒ N/A

Lot no.: ☐ N/A W1 Final Vol.: ☐ N/A 1.8 L Measured by: grad. Bottle

From ICPMS

IC - Standards
Logbook #2280Standard: 1000 ppm Mg CPI Int'l. Preparer: J. Nickman Date 08-30-21ID #: 2280-0830-079-1 Expires: 02/2022 Reviewer: AXA Date 08/31/21

Compound/Stock	ID #/ Lot #	Exp. Date	ppm Conc.	mL Amount	Final ppm Conc.	Bal/ Pip. #
Mg std CPI Int'l	1013353-76	04/2022	10000	5.0	1000	PIC-16
08-30-21						
08-30-21						

Solvent: ☐ Organic-free E-Pure water ☒ Nanopure water Other: ☒ N/ALot no.: ☐ N/A W1 Final Vol.: ☐ N/A 50.0 mL Measured by: B-SO 1g/mLStandard: 1 ppm Tanning CCV HPS Preparer: J. Nickman Date 08-30-21ID #: 2280-0830-079-2 Expires: 09-30-21 Reviewer: AXA Date 08/31/21Prep @ 1240

Compound/Stock	ID #/ Lot #	Exp. Date	ppm Conc.	mL Amount	Final ppm Conc.	Bal/ Pip. #
6 Amion HPS	2011603-10	04/2022	100	0.5	1.0	PIC-23
NO ₂ HPS	2022744-100	05/2022	100	0.5	1.0	PIC-23
08-30-21						

Solvent: ☐ Organic-free E-Pure water ☒ Nanopure water Other: ☒ N/ALot no.: ☐ N/A W1 Final Vol.: ☐ N/A 50.0 mL Measured by: B-SO 1g/mLStandard: 1 ppm Tanning IGV Accu Std Preparer: J. Nickman Date 08-30-21Prep @ 1245ID #: 2280-0830-079-3 Expires: 09-30-21 Reviewer: AXA Date 08/31/21

Compound/Stock	ID #/ Lot #	Exp. Date	ppm Conc.	mL Amount	Final ppm Conc.	Bal/ Pip. #
6 Amion Accu Std	22012504 P	01-16-23	100	0.5	1.0	PIC-23
NO ₂ Accu Std	21912504	01-04-22	100	0.5	1.0	PIC-23
08-30-21						

Solvent: ☐ Organic-free E-Pure water ☒ Nanopure water Other: ☒ N/ALot no.: ☐ N/A W1 Final Vol.: ☐ N/A 50.0 mL Measured by: B-SO 1g/mL

IC - Standards

Logbook #2328

Standard: 1.0 ppm 7 Anions CV STD Preparer: DDC Date 07-07-21ID #: 2328-0707-026-1 Expires: 07-18-21 Reviewer: TSC Date 07-07-21

Compound/Stock	ID #/ Lot #	Exp. Date	Conc.	Amount	Final Conc.	Bal/ Pip. #
100 ppm 6 Anions STD	AccuStd 219065109	01-04-21	100 ppm	0.50 mL	1.0 ppm	PIC-17
100 ppm Nitrate STD	AccuStd 219065104	01-04-21	100 ppm	0.50 mL	1.0 ppm	PIC-17
DDC 07-07-21						

Solvent: ☒ Organic-free E-Pure water ☐ Nanopure water Other: ☒ N/ALot no.: ☐ N/A W1 Final Vol.: ☐ N/A 50.0 mL Measured by: B-21 (18/mL)Standard: AS 14 Eluent 100x stock Preparer: DDC Date 07-08-21ID #: 2328-0708-026-2 Expires: 01-08-22 Reviewer: AXA Date 07-08-21

Compound/Stock	ID #/ Lot #	Exp. Date	Conc.	Amount	Final Conc.	Bal/ Pip. #
Na Carbonate, Anhydrous	J.T Baker 0000222063	03-31-25	—	9.28g	350 mM	B-33
Na Bicarbonate	J.T Baker 0000211585	05-25-24	—	2.10g	100 mM	B-33
DDC 07-08-21						

Solvent: ☒ Organic-free E-Pure water ☐ Nanopure water Other: ☒ N/ALot no.: ☐ N/A W1 Final Vol.: ☐ N/A 250.0 mL Measured by: B-50 (18/mL)Standard: 1X AS 14 Eluent Preparer: DDC Date 07-08-21ID #: 2328-0708-026-3 Expires: 10-08-21 Reviewer: AXA Date 07-08-21

Compound/Stock	ID #/ Lot #	Exp. Date	Conc.	Amount	Final Conc.	Bal/ Pip. #
AS 14 Eluent 100X stock	2328-0708-026-2	01-08-22	100X	18.0 mL (2 x 9.0 mL)	1X	PIC-15
DDC 07-08-21						

Solvent: ☒ Organic-free E-Pure water ☐ Nanopure water Other: ☒ N/ALot no.: ☐ N/A W1 Final Vol.: ☐ N/A 1.8 L Measured by: Grad Bottle

ID #: NO2 2022744-100

Stock Expires: 04-30-22
05-31-22

Reviewed By/Date: AXA / 08-10-21

Solvent: ☒ Organic-free E-Pure water ☐ Nanopure water Other: N/A
Lot no.: ☐ N/A W1 Final Vol.: ☐ N/A See col # 2 Measured by: B-21 (1 g/mL)
Comments: N/A

RESET FORM

PRINT FORM



ANALYTICAL REQUEST FORM

9240 Santa Fe Springs Road, Santa Fe Springs, CA 90670
562.948.2225 Fax 562.948.5850
www.element.com

ISO/IEC

17025

Cert: 3248.01



Send Report To

Contact: Matthew Cavanagh
Company: McDonald Hopkins LLC
Address: 600 Superior Ave., East, Ste. 2100
Cleveland, Ohio 44114
Email: mcavanagh@mcdonaldhopkins.com
Phone: 216-348-5730 Fax: 216-348-5474

Send Invoice To

AP Contact: Kevin Ezell
Address: PO Box 8401
Cincinnati, Ohio 45208
Quote# 000279833OPP
Project: AH Analysis
Purchase Order: _____
Phone: 513-864-8743 Fax: 513-979-5392

Turnaround Time (business days):

Date Data Due: _____

☒ Normal 10 days (routine analyses)☐ Rush 5 days☐ Rush 3 days☐ Rush 1 dayRush fees
will apply

Regulatory Requirements

- ☐ ISO 17025 Traceability Required
☐ R&D or Internal (not submitted to FDA)
☐ Regulatory Submission to FDA*
☐ Product/Raw Material Regulated by the FDA
☒ Other FOR LITIGATION PURPOSES

Storage

- ☒ Protected from light
☒ Room Temp
☐ 2 to 8°C
☐ -15 to -25°C
☐ -70 to -90°C

Reporting Options

- ☐ Report Only
☐ + Spectra/Chromatograms
☒ + QA Data Pkg (extra fee)
☒ Send by Mail
☒ Send by Email

☐ DEA Controlled Substance/Chem: Schedule - _____

Comments and Precautions (SDS Must be included with all samples)

No known danger or known health risks. Please maintain strict chain of custody with pictures and video / save all remaining sample for litigation.

To ensure compliance with cGMP requirements, non-compendial test methods must be transferred and/or validated. Method transfer and/or validation services are available on request and are the responsibility of the client. Where method transfer and/or validation have not occurred reports will indicate "method not validated for this matrix at this facility."

Sample Identification for Report

Matrix/Product

Analysis(es), Specifications*, and/or Method & Revision

*Specifications are required for all FDA cGMP work.

☒ Refer attached (check this box if sample information will be provided in a separate attachment)

Samples will be disposed of 30 days after invoicing, except for regulated substances samples, which will be returned at the client's expense.

All documents and raw data will be disposed of after 7 years. By completing this form, or submitting samples for analysis, or by authorizing to perform the services, including but not limited to the issuance of a purchase order, shall indicate acceptance of the Element Materials Technology Pharma US LLC Terms Conditions of service and terms of the quote. Any other terms and conditions, including those identified in Client's purchase order are expressly rejected, unless otherwise agreed to in writing by an authorized representative of Element. In the event that the parties have executed a services agreement, the terms of such executed agreement shall govern.

For Internal Use Only:

Testing Authorized by:

Matt Cavanagh

Company:

McDonald Hopkins

Date:

7/20/21

Received by:

Delivered by:

Date:

Time:

Element Job Number:

249035



ANALYTICAL REQUEST FORM

9240 Santa Fe Springs Road, Santa Fe Springs, CA 90670
562.948.2225 Fax 562.948.5850
www.element.com

ISO/IEC

17025

Cert: 3248.01



Send Report To

Contact: _____

Company: _____

Address: _____

Email: _____

Phone: _____ Fax: _____

Send Invoice To

AP Contact: _____

Address: _____

Quote# _____

Project: _____

Purchase Order: _____

Phone: _____ Fax: _____

Turnaround Time (business days):

Date Data Due: _____

☐ Normal 10 days (routine analyses)☐ Rush 5 days☐ Rush 3 days☐ Rush 1 dayRush fees
will apply

Regulatory Requirements

☐ ISO 17025 Traceability Required☐ R&D or Internal (not submitted to FDA)☐ Regulatory Submission to FDA*☐ Product/Raw Material Regulated by the FDA☐ Other _____

Storage

☐ Protected from light☐ Room Temp☐ 2 to 8°C☐ -15 to -25°C☐ -70 to -90°C

Reporting Options

☐ Report Only☐ + Spectra/Chromatograms☐ + QA Data Pkg (extra fee)☐ Send by Mail☐ Send by Email☐ DEA Controlled Substance/Chem: Schedule - _____

Comments and Precautions (SDS Must be included with all samples)

07-27-2021 CP: ① Also has 23977-3

UPC# 091037 445995

To ensure compliance with cGMP requirements, non-compendial test methods must be transferred and/or validated. Method transfer and/or validation services are available on request and are the responsibility of the client. Where method transfer and/or validation have not occurred reports will indicate "method not validated for this matrix at this facility."

Sample Identification for Report

Matrix/Product

Analysis(es), Specifications*, and/or Method & Revision

*Specifications are required for all FDA cGMP work.

☐ Refer attached (check this box if sample information will be provided in a separate attachment)

0002798330PP

AH Analysis

08-23-2021 CP: ② Transferred sample to JN 249635

Samples will be disposed of 30 days after invoicing, except for regulated substances samples, which will be returned at the client's expense.

All documents and raw data will be disposed of after 7 years. By completing this form, or submitting samples for analysis, or by authorizing to perform the services, including but not limited to the issuance of a purchase order, shall indicate acceptance of the Element Materials Technology Pharma US LLC Terms Conditions of service and terms of the quote. Any other terms and conditions, including those identified in Client's purchase order are expressly rejected, unless otherwise agreed to in writing by an authorized representative of Element. In the event that the parties have executed a services agreement, the terms of such executed agreement shall govern.

For Internal Use Only:

Testing Authorized by: _____

Company: _____

Date: _____

Received by: _____

Date: _____

Time: _____

Delivered by: _____

07-27-2021

3:20 PM

Element Job Number: _____

249067